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An automated individual training record management systems (Prototype), United States Marine Corps

Pruiett, Ronald E.

Monterey, California. Naval Postgraduate School

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NAVAL POSTGRADUATE SCHOOL
Monterey, California

THESIS

AN AUTOMATED INDIVIDUAL TRAINING RECORD
MANAGEMENT SYSTEM (PROTOTYPE)
UNITED STATES MARINE CORPS

by

Ronald E. Pruiett
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March 1984

Thesis Advisor: Norman R. Lyons

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20. ABSTRACT *(Continue on reverse side if necessary and identify by block number)*

This thesis examines the feasibility of implementing an existing manual system, the Individual Training Record Management System, on a microcomputer. To demonstrate conceptual feasibility, a prototype is designed and implemented utilizing a commercially available database management system (DBMS). The prototype is not intended to be a fully operational system. Rather it provides an opportunity to demonstrate functions that could be fully implemented in similarly designed systems utilizing the basic criteria of simplicity, utility and low cost.

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An Automated Individual Training Record Management System
(Prototype),
United States Marine Corps

by

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MASTER OF SCIENCE IN INFORMATION SYSTEMS

from the

ABSTRACT

This thesis examines the feasibility of implementing an existing manual system, the Individual Training Record Management System, on a microcomputer. To demonstrate conceptual feasibility, a prototype is designed and implemented utilizing a commercially available database management system (DBMS). The prototype is not intended to be a fully operational system. Rather it provides an opportunity to demonstrate functions that could be fully implemented in similarly designed systems utilizing the basic criteria of simplicity, utility and low cost.

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I. INTRODUCTION

A. GENERAL DESCRIPTION

This interactive prototype automates the existing manual
system of maintaining individual training information on
USMC personnel. The term "system" is used throughout this
thesis to mean hardware and software. The software consists
of customized code which overlays a commercially available
data base management system (DBMS). The system is targeted
for implementation at the infantry or artillery battalion or
subordinate unit level. However, with minor modifications,
primarily increasing the limitation on the number of subor-
dinate units and increasing the size of the database, the
system could be used by any U.S.M.C. organization, including
the Marine Air Ground Task Force (MAGTF). No prior user
experience in computer or automated systems is assumed. In
addition to generating standard reports, the system provides
limited decision support capabilities, responds to non-
standard data base inquiries, and includes facilities for
data base maintenance.

B. BACKGROUND

Individual training subjects in the U.S. Marine Corps
encompass a variety of otherwise unrelated training topics
that are conducted and evaluated periodically. The common
characteristic of individual training vis-a-vis unit
training is that training and testing relate to individual
skills and individual levels of performance. Since the
focus is on individual training and individual testing, data
is maintained for each individual in a unit and conse-
quently, the system is very data intensive.

Individual training includes subjects such as "essential subjects", physical fitness, rifle/pistol qualifications, career training, and military occupational specialty (MOS) training. Each subject or grouping of subjects typically includes its own set of training and testing requirements. For example, some individual training subjects require proficiency demonstration only once during an entire career while others must be evaluated annually. In total individual training information includes approximately 60 separate elements of information that must be maintained for each Marine. Individual Training Records (ITR's) are traditionally maintained manually at the company level. A data base consisting of 200 records and 10,000 data elements in a company size unit is not uncommon. In addition to data base maintenance , which includes frequent creation, deletion, and update of records, the data base is often used to provide training management information concerning the current training status of the unit or as a basis for developing future training plans.

It is the contention of this thesis that the system can be operated and maintained by a technically unsophisticated user at a reasonable cost.

C. OBJECTIVES

The objective of this thesis is to design and implement a prototype system that is simple to use and that:
1. Maintains individual training records for a USMC battalion;
2. Provides standard reports upon request;
3. Provides nonstandard reports upon request;
4. Demonstrates a decision support application;
5. Provides a data base maintenance capability.

D. ENVIRONMENT

The system is used and maintained by persons with no prior experience with computers and with little prior training on this system. The system's data base requires frequent maintenance. Approximately a 30% record turnover rate (i.e., 30% of old records will be deleted and 30% new records will be inserted into the data base) is expected each year. Additionally, records will be modified at the rate of approximately 50 data fields per work day for each company (based on an average strength of 150 Marines per company). The physical environment envisioned is a typical office setting with no unique system requirements anticipated.

E. SYSTEM CHARACTERISTICS

The following system characteristics are listed in order of importance.

1. User friendly

The system is simple to operate and maintain. It requires no extended training sessions and it provides prompts to the user.

2. Reliability

The reliability of the hardware and the DBMS is beyond the scope of this thesis. The code written to implement this design is the user-system interface. Accordingly, to ensure the integrity of the system, the DBMS remains transparent and inaccessible to the user. The overall reliability of the system is high. To this end, the system includes the following provisions:

a. Menu driven

b. No possibility of accidental erasure of data base.

c. No possibility of user to "escape" or default to DBMS.

3. Cost

The costs of a microcomputer and the proprietary software required to run the system are low compared to mainframe or mini-computer application.

4. Expandability of data base

The data base can be expanded subject to memory and DBMS constraints. The larger the data base the slower the system will respond to user requirements. This is, however, an acceptable tradeoff.

5. Expandability of functions

The system can be easily expanded to include added functions. This facility has been implemented by incorporating a modular structure in the design. A module can be added or modified with little difficulty.

6. Speed of operation

The speed of the system is relative to the size of the data base. However in all cases compared to the present manual system it is much faster.

F. SUMMARY

1. Scope of Development

This thesis includes the determination of system requirements, system feasibility, system design and review, and implementation of a functional prototype.

2. Concept

The purpose of this thesis is to demonstrate feasibility of the concept: A fully automated individual training record management system for a battalion size unit can be implemented on a microcomputer. The system can be developed and operated at a reasonable cost. Furthermore, the system can be operated and maintained by persons having no prior computer experience after little training.

II. SYSTEM DESCRIPTION AND REQUIREMENTS

A. INPUT INFORMATION

The user's input consists of a sequence of menu prompted responses. Each user's response is either a specific request to the system for data base maintenance, a standard report, or data necessary to generate the desired nonstandard report.

B. SYSTEM SPECIFICATIONS (FUNCTIONAL)

1. Training Data

The system is capable of developing and maintaining training data for at least 800 Marines. The following information is maintained for each individual:

    a. Name/SSN/personal data

    b. Rank

    c. Unit (company and platoon)

    d. Annual training requirements status (essential subjects, leadership, SNCO/NCO training ,etc.)

    e. Rifle/pistol qualifications status (current year)

    f. MOS qualifications

    g. An unformatted data field to be utilized as desired by the user. It may be used to maintain the following kinds of information:

        (1) Formal schools attended.

        (2) Local schools attended.

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(3)   MCI courses completed.

(4)   Participation   in   training   exercises/
training deployments.

2.   Data Base Maintenance

Maintenance of the data base is simple and provides
positive user control at all times (i.e., user inputs data
and views updated individual training record before data is
stored into memory).

3.   Report Formats

Most standard reports are retrievable in a statis-
tical mode or in a unit roster mode.

a.   Statistical Mode

The statistical mode report provides the total
or the percent of a unit that has satisfied a particular
user specified training criterion (What percent of a unit is
swim qualified?).

b.   Roster Mode

The roster mode report provides names of persons
in a specified   unit that have satisfied   a training
criterion.

4.   Data Retrieval

All standard reports are retrievable by unit desig-
nator (e.g., battalion, company/platoon).   Training data is
retrievable by individual, by unit, or by a user defined set
of attributes (e.g., all sgts in A CO) utilizing the
nonstandard reports option.

5. Standard Reports

The system provides the following standard reports:

a. Unit Roster

The Unit Roster Report will display in alphabet-ical order the NAME, RANK, and PRIMARY MOS for each member of the selected unit or subunit.

b. Personal Data Report

The Personal Data Report displays for each member of a unit or subunit all personal data including NAME, SSN, RANK, PRIMARY/SECONDARY MOS, UNIT/SUBUNIT NAME, JOIN DATE, EAS, BIRTHDATE, HEIGHT, WEIGHT and a one char-acter boolean comment block.

c. Essential Subject Training Requirements Status Report

The Essential Subject Training Requirements Status Report displays the percent and total number of unit or subunit members that have completed an Essential Subject requirement or the PFT (physical fitness test).

d. Annual Training Requirements Status and Roster Reports

The Training Status Report displays for each essential subject, the percent of the unit that has success-fully completed each training element and the total number of unit members that have completed each training element. In addition, the Training Status Report includes completion statistics for PFT1, FFT2, SWIMQUAL, RIFLE QUAL, and PISTOL QUAL.

The Training Roster Report displays in alphabet-ical order each member of the selected unit or subunit and

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his complete training status for the current year. If a training element has been successfully completed for the current year, a letter corresponding to that training element will be shown. An "*" symbol indicates that a training element has not been completed. For example, "FIRST AID AE*H**B**DF" indicates that elements ABDEF and H have been completed and five of the eleven elements have not been completed (i.e., C,G,I,J and K).

e. Rifle/Pistol Qualifications Status

and Roster Reports

The Marksmanship Status Report will display the qualification results for the unit or subunit members that have fired the rifle or pistol for qualification during the current year. Also, the percent that have qualified in each category (eg. EX,SS,MM,UN) and current year results for rifle and pistol will be shown. The pistol qualification results include only those members required to fire the pistol for qualification.

The Marksmanship Roster Report will display in alphabetical order the NAME, RANK, DATE OF QUALIFICATION, and QUALIFICATION RESULTS for each member of the selected unit or subunit. Current year results only will be displayed.

f. MOS Qualification Status and Roster Reports

The MOS Roster Report groups the selected unit or subunit by primary MOS and RANK and then displays in alphabetical order the NAME, RANK, PRIMARY MOS AND SECONDARY MOS of all members in the unit or subunit. This report will function regardless of the number or different types of MOS's contained in a unit.

g. Individual Training Record Report

The Individual Training Record Report prompts the user for the name of a member in the data base. After a name is entered the complete individual training record for that individual is displayed. This includes all training data included in the data base on this particular individual (i.e., essential subject status, PFT status, current year rifle/pistol qualification results, swim qualification status) and personal data (i.e., name, rank, SSN, unit, primary MOS).

h. Swim Qualification Report

The Swim Qualification Report displays in alphabetical order for each member of the unit or subunit selected NAME, RANK, UNIT and current SWIM QUAL results.

6. Decision Support Subsystem

The purpose of this component is simply to demonstrate the decision support potential of this system using the available data base.

7. Nonstandard Reports

The system generates user defined non-standard reports. These reports are created from attributes that the user determines. A maximum of three attributes can be selected.

8. System Controls

Safety controls are provided to ensure that the data base cannot be accidentally written over or otherwise destroyed. Also, the system includes an executive access control facility, and control for "read only" access or "read/write" access. System access is permitted in one of the following three levels:

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a. Data Base Administrator level is intended for the sole use of the Data Base Administrator and includes full system capabilities (install system, initialize data base, modify access directory, create/ delete/modify data base records).

b. Create/modify data base level

c. Restricted to retrieve information in report format only from the data base.

9. Output Mode

The prototype is capable of sending reports to a CRT screen. With minor modifications the user can be given an option of screen or printed copy output.

C. REQUIRED SPECIFICATIONS (NON-FUNCTIONAL)

The following is a list of non-functional system specifications:

1. The system is interactive.
2. A high school graduate with no computer background can retrieve standard reports with no more than one hour of system training.
3. A high school graduate with no computer background can create and maintain the data base with no more than six hours of training.
4. A high school graduate with no computer background can retrieve a standard report after one hour of training.
5. A high school graduate with no computer background can retrieve a multiple-criteria nonstandard report after an additional one hour of training.
6. The system can be easily modified to change record formats, field formats, and standard report formats

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without a major redesign or reprogramming effort. A major redesign is considered any design effort that involves changing a module interface.

7. The system can retrieve standard reports in 15 minutes or less.

8. The system can retrieve non-standard reports in 30 minutes or less.

9. The system does "out of bounds" checking/parameter checking on all quantitative data and standard inputs.

10. The system automatically converts rifle, pistol, and PFT raw scores into corresponding qualifications (e.g. 245 rifle raw score ==> Expert).

D. DATA STRUCTURE DEFINITIONS (DATA DICTIONARY)

1. Introduction

The data dictionary should be maintained by the Data Base Administrator and documentation should be accessible to all users. This data dictionary facilitates maintenance, the integrity of the information in the data base and provides information on data relationships.

2. Data Base Management System

a. Commercial Software

The Data Base Management System (DBMS) kernel is a commercially available software system. The program dBase II, a relational DBMS, provides all of the necessary attributes (availability, record capacity, user friendly environment, etc.). Therefore, dBase II (Ashton-Tate version 2.4) is used, and data structures are implemented by the dBase II system.

b. Data Base Files

The information maintained on each individual is organized in a relational data base. The following records or tuples are defined for each individual (The number of characters per field is defined in the data element dictionary, see Appendix A):

(1) <u>Personal Information Record</u>. SSN, name, military occupational specialty (MOS), rank, weight, height, company/platoon, birthdate, joindate, expiration of active service (EAS), and gas mask size.

(2) <u>Essential Subject Training Requirements</u>. SSN, 9 essential subjects, and physical fitness information.

(3) <u>Rifle/Pistol/Swimming Qualifications</u>. SSN, rifle score current year, pistol score current year, swimming qualifications, and dates.

(4) <u>Information Miscellaneous</u>. SSN, 11 fields for training information.

(5) <u>Comment</u>. SSN; 250 characters that can be utilized, at the users discretion, for formal/informal school data, deployments information, MCI courses completed or specific comments.

(6) <u>Security</u>. SSN, name, user identification code, password, and authorization level.

III. METHODOLOGY AND DESIGN

A. METHODOLOGY

1. Software

At the center of the software subsystem is the IBM Personal Computer Disk Operating System (DOS 2.0). System requirements for PC DOS operating systems includes:

    a. 8088 based microprocessor

    b. 128K bytes of RAM memory

    c. Cursor addressable 24 line by 80 column CRT

The software layer immediately outside DOS 2.0 is dBase II (version 2.4) which is a commercially available relational data base application system developed and distributed by ASHTON-TATE. dBase II is a data base management tool that permits manipulation of user designed data base files using English-like commands which collectively define a query language.

The layer of code contiguous with and completely surrounding dBase II is what we designed and wrote to satisfy the thesis objective. The code is written in the dBase II query language. This layer of code, that will be referred to as the "outer layer", is designed to be the only interface between the system user and the system. All system entries, data base transactions or manipulations, report inquiries, and system exits are through the outer layer of code. This is an important and necessary design consideration for the following reasons:

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a. Simplicity

In order to satisfy the system requirement for simplicity, it was necessary to impose a software layer between the user and the dBase II software. This outer layer presents to the user a series of menus. The user responds to each menu prompt by pressing the keyboard key that corresponds to action desired. The user's response in turn initiates a code sequence that causes the desired action to be taken. If additional user input is required to complete the action, the code causes another menu to be presented to the user. Each menu represents an exhaustive list of possible options that may be selected by the user. This sequence of menu presentation and user response is repeated until the desired action has been adequately defined. At this point the code executes using as variables the input provided by the user. Therefore, this outer layer includes all of the code that determines the functions available to the user and simplifies the operation of the system.

b. Layering

If the user had access to the DOS 2.0 or the dBase II layer he could easily modify the outer layer code. This action could cause a system failure. Therefore, this eventuality must be prevented. Another function of the outer layer is to prevent access to inner layers of software.

c. Data Integrity

Since the data base files contain personal data, that needs to be protected, it is important to limit access to the data base. Also, uncontrolled access to data base files can result in lost data or catastrophic destruction of

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the data base.   To preclude this, the outer layer provides system security and ensures data integrity.

   d.   File Maintenance

   Whenever data base files are accessed, housekeeping functions need to be performed such as opening or closing files, joining files,   creating temporary files or deleting temporary files when no longer needed, and creating or releasing variables.   The outer layer automatically performs these functions for the user.

B.   SOFTWARE DESIGN

1.   Structured Programming

   Although the dBase II query language is not a structured programming language, structured programming techniques were employed during the software design.   This was done to reduce system maintenance, to simplify system design and to make future changes to the system easier to implement.   The following techniques were emphasized during the design phase of the development cycle.

   a.   Top down design and hierarchical structure

   b.   Modularization

   c.   Information hiding

   d.   In general, efforts were made to maximize module cohesion and to minimize coupling between modules.

2.   Top-down Design

   The overall design concept was the top-down design or step-wise refinement technique.   This concept provides the capability to work from a simple idea and expand it to the final complex product.   This process facilitates orderly

and logical development of the design steps. The first step
in the process is to determine how the data or an input is
transformed to produce the desired output. The concentra-
tion is on 'What' is done not 'How' it is done. With this
information data flow diagrams are produced. These diagrams
should be considered arrows pointing to 'black boxes' which
manipulate the data. The actual mechanisms of the manipula-
tions are not important at this point in the design process.
The diagrams show the information passing through the system
and the transformation of data in the system. These
diagrams are produced at an increasing level of detail until
further expansion does not provide a significant change.

From the data flow diagrams, hierarchical charts are
produced. Any information modifications that are related,
are grouped into the same module. Once the hierarchy is
established, algorithms are developed using structured
programming techniques. These algorithms are then converted
into code. The code is implemented using the top down
programming technique, this technique implements the highest
levels of the hierarchy first. As lower level modules are
completed and tested, they are added to the existing
modules. This technique simplifies a complicated program.

C.   DATA FLOW DIAGRAMS

At first, it is necessary to decide what information
goes into the system and what information exits from the
system. The user inputs both data and commands from a
terminal and receives, from the system, reports and informa-
tion. The first iteration of the data flow diagram has two
inputs and two outputs (see Figure 3.1).

The Individual Training Record Management (ITRM) System
is responsible for maintaining a large amount of data.
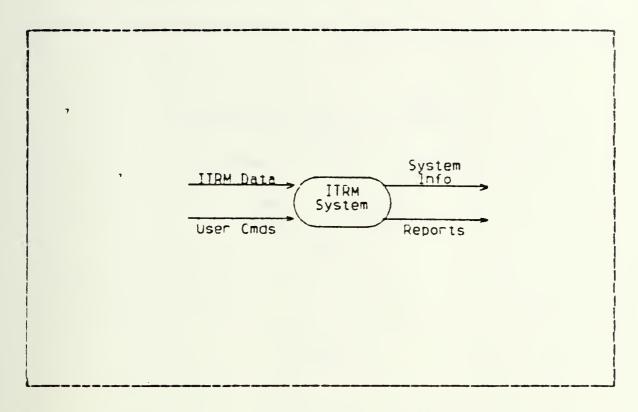Handling of the information should be transparent to the

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Figure 3.1   Initial Data Flow Diagram

user.   Therefore, a Data Base Management System (DBMS)   was
incorporated to maintain the data   base.   The DBMS requires
specific   commands as   input   and   outputs   information   (see
Figure 3.2).

The ITRM System is designed to have a restricted access.
The user must enter the proper identification for the system
to allow   access.   The   access function   produces a   valid/
invalid acknowledgement to the remaining portion of the ITRM
system.   Commands   and   data   pass   through   the   Command
Determiner which selects the type of action the system is to
execute.   The   three   functions   called   by   the   Command
Determiner are:

1.   Standard Command Determiner

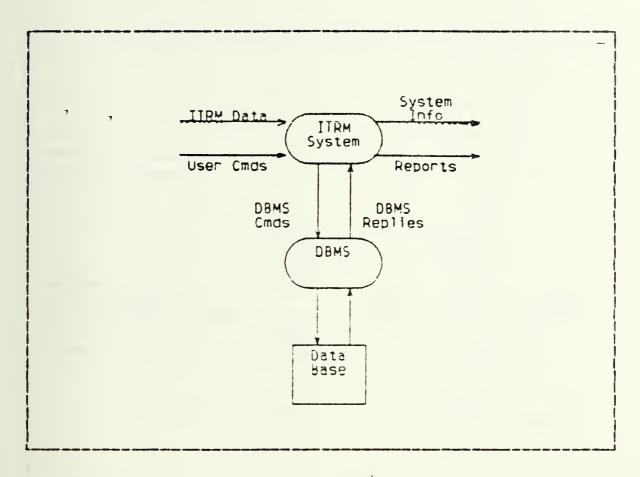2.   Nonstandard Command Determiner

3.   Maintenance Handler

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Figure 3.2   Data Flow Diagram Expansion· for DBMS

These three functions interface with the DBMS by producing
DBMS commands.   The DBMS then   communicates to   the Report
Generator the   information necessary to produce   the desired
reports.   Figure 3.3 shows the second expansion.

The access   control of any   system can be   very complex.
This system   requires the   user to   input an   identification
code and a password.   The system then matches these items to
insure an authorized user.   If access is valid,   the user's
authorization level is passed to the rest of the system.   If
access is   invalid,   the user   gets one more   opportunity to
enter a correct   access sequence.   If the   user fails again
the system terminates the session.   The information required
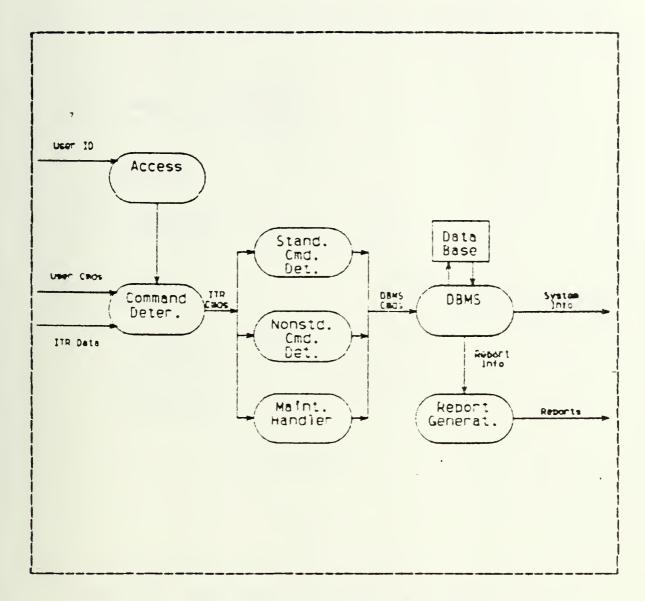to handle the   access function is stored in   the DBMS.   The

Figure 3.3   Data Flow Diagram Expansion 2

premise of the entire system is to prompt the user into
entering the correct response, thereby reducing the need for
any prior experience.   The ITFM system prompts the user for
the proper access codes and informs him when an error has
been made.   Figure 3.4 displays the Access data flow expan-
sion.

Each of the Command Determiners prompts the user for
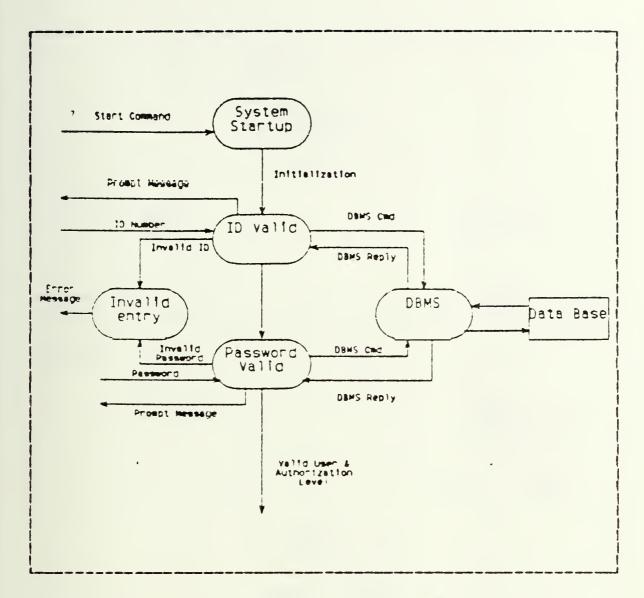responses from which DBMS commands are derived.   The report

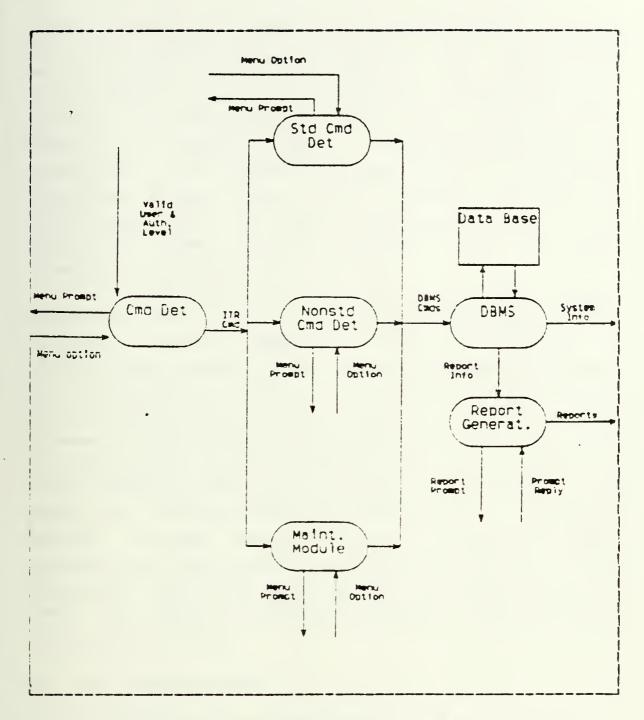Figure 3.4   Data Flow Expansion for Access Function

generator then interprets the DBMS replies and prompts the
user to format the reports (Figure 3.5).

The data flow diagrams, demonstrate the simple and
logical flow of the data through the ITRM System. The next
step is to logically organize the flow diagrams into a hier-
archy of modules that accomplish the data transformations
depicted in the data flow diagrams.

Figure 3.5   Data Flow Expansion for Command Generators

C.   SYSTEM HIERARCHY

The ITRM System is relatively simple in design.   It
requires maintenance of the data base,   production   of

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standard reports, and simple query capabilities for the user through nonstandard reports. The system must be initialized and sequential control established. The ITRMS Master Control Module was created to handle the functions of system control and initialization. This module is the highest level of the hierarchy, level 1. All access functions are consolidated in one module, the Access Module. The Command Determiner Module controls which functions the user can invoke and checks for proper authorization level. The Access and Command Determiner Modules comprise the second level of the hierarchy.

The Standard Command Determiner, Nonstandard Command Determiner, and the Maintenance Handler are combined with portions of the Report Generator to form three modules, the Standard Report Generator, the Nonstandard Report Generator, and the Maintenance Module. These three modules interface with the DBMS and produce DBMS commands. In addition, they process the information returned from the DBMS and produce the appropriate reports. Consolidation of determiner and report generation functions simplifies the structure of the system and facilitates subsequent maintenance. The three modules, Standard Report Generator, Nonstandard Report Generator, and Maintenance, comprise the third level of the hierarchy. The lowest layer of the hierarchy contains the DBMS. The hierarchy displayed in Figure 3.6 demonstrates simplicity of design.

E. MODULE DESCRIPTIONS

1. ITRMS Master Control Module

a. Module Purpose

The ITRMS Master Control Module initializes the system and controls the logical sequencing of all modules.
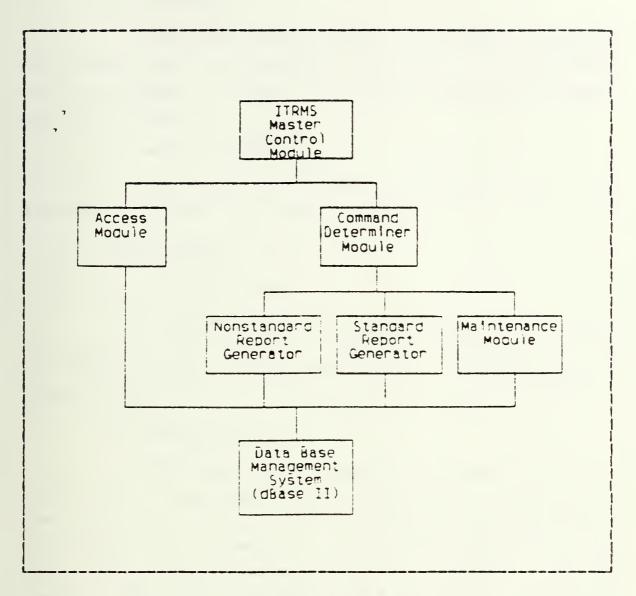
```
                    +----------------+
                    |     ITRMS      |
                    |    Master      |
                    |    Control     |
                    |    Module      |
                    +----------------+
                       |          |
          +------------+          +-------------+
          |                                     |
   +----------------+              +----------------+
   |    Access      |              |    Command     |
   |    Module      |              |   Determiner   |
   |                |              |    Module      |
   +----------------+              +----------------+
          |                              |
          |          +-------------------+-------------------+
          |          |                   |                   |
          |  +--------------+   +--------------+   +--------------+
          |  | Nonstandard  |   |   Standard   |   | Maintenance  |
          |  |   Report     |   |    Report    |   |    Module    |
          |  |  Generator   |   |  Generator   |   |              |
          |  +--------------+   +--------------+   +--------------+
          |          |                   |
          +----------+---------+---------+
                               |
                     +------------------+
                     |   Data Base      |
                     |  Management       |
                     |   System         |
                     |  (dBase II)      |
                     +------------------+
```

Figure 3.6   ITRM System Hierarchy

b. Module Function

The ITRMS Master Control Module initiates and
coordinates all internal system processes (except operating
system functions).   The module responds to internal cues
(from other modules) and to environmental cues (from the
user).   The module controls the access to all modules and
shields the user from the resident operating system.   The
module will not allow the user to exit to the operating
system.

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c. Interfaces

The master control module is at level 1 which is the highest level in the module hierarchy. It interfaces with two modules at level 2, Access Module and Command Determiner Module.

d. Design Decisions

This module can be easily modified to handle any expansions by adding new module interfaces.

2. Access Module

a. Module Purpose

The Access Module prompts the user for an identification code and password. The module determines if the user has authorized access and assigns the corresponding level of access.

b. Module Function

The Access Module requests the user's identification code and password. It validates the ID to ensure the user is on the access list and to ensure that the password corresponds with the user ID. If the user ID is not on the access list an appropriate message is returned. If the password does not correspond with the user ID (after two iterations), an appropriate message is displayed and the session is terminated. Once the correspondence of ID and password has been determined, the module passes the access authorization level to the command determiner. The authorization level is used to determine which menu options are available to the specific user.

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c. Interface

The Access Module receives control instructions
from the ITRMS Master Control Module.   The Access Module
interfaces directly with the DBMS to manipulate the security
file.   After the access module completes its processing and
if the user is authorized access,   the level of access is
passed back to the ITRMS Master Control Module.

d. Design Decision

The design allows modifications to be made to
the access system without side effects.

3. Command Determiner Module

a. Module Purpose

The Command Determiner Module directs control to
either the Standard Report Generator, Nonstandard Report
Generator, or the Maintenance Module.

b. Module Function

The Command Determiner asks the user,   through a
standard set of menu prompts, what task he wishes to accom-
plish.   Based on the user response, the Command Determiner
Module transfers control to one of the three lower level
modules.   The Command Determiner Module also checks to see
if the user has access to that module.   If access is not
authorized then an appropriate message is displayed.

c. Interfaces

The Command Determiner is called by the ITRMS
Master Control Module and passes control to either the
Standard Report Generator, Nonstandard Report Generator, or
the Maintenance Module.

c. Design Decisions

This module allows the separation of the
Standard Report Generator, the Nonstandard Report Generator,
and the Maintenance Module. This separation facilitates
changes and reduces module coupling.

4. <u>Nonstandard Report Generator Module</u>

a. Module Purpose

The Nonstandard Report Generator allows the user
to query the data base in a controlled manner. The queries
are generated from a series of prompts to the user.

b. Module Function

The module prompts the user, through a series of
menus, to produce the desired query. When the module
receives the appropriate prompted input from the user, the
nonstandard command generator accesses the DBMS for the
requested information. The information is then formatted
and displayed.

c. Interfaces

The Command Determiner Module calls this module
based on user selection. The Nonstandard Report Generator
interacts directly with the user. This module constructs
the queries and communicates them to the DBMS. It also
processes the information received from the DBMS and formats
the data into a report.

d. Design Decisions

If there is a future need to modify the types of
queries that are available to the user, the changes will be
confined to this module.

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5. Standard Report Generator Module

a. Module Purpose

The Standard Report Generator produces the DBMS commands that will create the standard reports. These reports are produced on a regular basis, therefore, it is advantageous to standardize the reports.

b. Module Function

The Standard Report Generator displays option menus to the user and translates user's responses into the necessary sequence of DBMS instructions. After the user decides which standard reports will fulfill his needs, the module formats standard reports and displays the user requested information. The Standard Report Generator includes a DSS subset.

c. Interfaces

The Standard Report Generator is called by the Command Determiner. The Standard Report Generator communicates with the DBMS and processes information from the DBMS to produce its reports.

d. Design Decisions

This module was designed to take advantage of the fact that many applications are routine in nature. These are programmed in a single module and significantly simplify access to routine reports. If any of these routine reports need modification, the change can be isolated to this module.

6. Maintenance Module

a. Module Purpose

The Maintenance Module provides users the capability to create, delete, and update the data base records. Necessary system functions reside in this module. The Data Base Administrator maintains the access file from this module and initializes the system to his specific unit.

b. Module Function

To update a record, the Maintenance Module extracts the data in each data base file for a selected unit member. The data is combined into a single screen display representing all data contained in the system on the individual. To update a field, the data in the field can be typed over with current data. Upon completion, each data element is read and returned to its proper location in the appropriate data base file. Creation of new records is accomplished in the same manner. Records are deleted by a single deletion command. Therefore, this command usage is limited to avoid accidental and malicious destruction of data.

c. Interfaces

The Maintenance Module interfaces with the Command Determiner and the DBMS.

d. Design Decisions

All data modifications are implemented using the Maintenance Module. The physical and logical structure of all data base files is hidden from the user.

IV. IMPLEMENTATION

A. CONSTRAINTS

1. dBASE II

Following is a list of dBase II constraints that affected the design of this system and consequently imposed constraints on the implementation of the Individual Training Record Management System:

a. No more than 65535 records can be used in a single data base file.

b. No more than 32 fields can comprise any single record.

c. No more than 254 characters can be placed in any one field.

d. No more than 1000 characters can be placed into any single record.

e. No more than 64 variables can be located in working storage at any given time.

2. Hardware

Following is a list of development hardware constraints that affected the design of this system and consequently impose constraints on the implementation of the Individual Training Record Management System.

a. Main memory storage (RAM) is 512K.

b. Two double density double sided disk drives were used for a total of 720K bytes of disk storage.

c.   The IBM PC 8088 microprocessor operates at 4.7
MHz.

To maximize the amount of data that the system main-
tains, a RAM disk drive is created.   This RAM drive allows
the program to be copied into memory and enables the full
use of the two disk drives for data.   Use of the RAM drive
increases the speed of the program by allowing the various
called routines to be read more quickly into the working
storage.   The memory access time for the IBM PC is much
faster than disk access time.   This increase in speed
reduces the response time to the user. The objective of the
prototype is to handle the data required to maintain a
battalion sized unit's training records.   The amount of
storage required for 800 individuals is approximately two
megabytes.   This allows for the overhead that the DBMS uses
and the room necessary to execute functions that require the
creation of temporary files.   The available storage in the
prototype system limited the test data base to a company
sized unit.

3. Environmental

The following environmental considerations constrain
the system by placing added requirements on the ultimate
design.

a.   Inexperienced users

b.   Frequent turnover of personnel

c.   Limited training time available

d.   Hardware maintenance must be readily available
from outside commercial sources.

e.   Software Maintenance is not intended to be
performed at the user level because computer
programming skills are not necessarily available.

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f. No unusual requirements for physical environment such as smoke or dust free atmosphere, unusual electrical power characteristics or hookup, or vibration dampening, are required.

B. GENERAL

The outer layer consists of six separate modules divided into three levels. This section will briefly describe the routines that make up each module and the system output from each routine. The listings of the programs are in the appendices, and can be examined for further detail.

1. ITRMS Master Control Module

a. Master Routine (Master.prg)

This module controls the sequencing of the program. It is an endless loop which requires the computer to be either turned off or re-booted to exit the ITRM System. The Master routine requires the user to switch diskettes. The user receives a message to physically exchange the program diskettes with the data diskettes. If the diskette exchange is not made or is made improperly the user is prompted again to make the proper exchange.

The Access Module is initiated by the Master Routine and if a valid indication is returned, the Master Routine will initiate the Command Determiner Module. Once the Command Determiner Module is exited, the Master Routine loops to the beginning to receive a user command to initiate the Access Module.

b. Pause Routine (Pause.prg)

This routine provides a time delay for the system. When this routine is called, it delays the functioning of the system for approximately thirty seconds.

This routine is used to delay error messages that are displayed for a short period of time.

2. Access Module

a. Access Routine

The Access Routine prompts the user for an identification code. The routine then instructs the DBMS to search for that code in the security data base file. If the code is not found a message is displayed and the user can try again. If the code is found the corresponding password from the data base is stored in memory. The user is then prompted for the password. When it is entered, if it does not match the password in memory an error message is displayed and the user can try again. If the password that the user enters matches the password in memory, a valid user state is passed to the Master Routine with a user authorization level.

3. Command Determiner Module

a. Command Determiner Routine (Cmddet.prg)

The Command Determiner Routine displays to the user a menu. The user can choose to initiate the Nonstandard Report Generator, Standard Report Generator, Data Entry and System Functions (Maintenance), Help, or Quit. The user enters the appropriate letter which is processed by a case statement that initiates the selected module. Figure 4.1 displays the Command Determiner Menu.

b. Help2 Routine (Help2.prg)

The Help2 Routine provides information to the user on the functions that can be initiated from the Command Determiner and the Maintenance Module. The information is presented to the user to help in the selection of the

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```
+----------------------------------------------------------------------+
|                                                                      |
|                    USMC INDIVIDUAL TRAINING                          |
|                    RECORD MANAGEMENT SYSTEM                          |
|                                                                      |
|                         MAIN MENU                                    |
|                                                                      |
|            SELECT ONE OF THE FOLLOWING OPTIONS BY                    |
|            ENTERING THE APPROPRIATE LETTER                          |
|                                                                      |
|            D...DATA ENTRY AND SYSTEM FUNCTIONS                       |
|            S...STANDARD REPORTS                                      |
|            N...NONSTANDARD REPORTS                                   |
|            H...HELP                                                 |
|            Q...QUIT                                                 |
|      SELECT OPTION =====>:                                          |
|                                                                      |
|                                                                      |
+----------------------------------------------------------------------+
```

Figure 4.1   Command Determiner Menu

appropriate module and is not designed to explain the func-
tioning of the entire system.   The systems built-in prompts
walk the user through the necessary steps to accomplish the
desired task.

4.   Nonstandard Report Generator Module

     a.   Nonstandard Report Routine (Nostdrpt.prg)

          This module gives the user an option to go
directly to the report or to view a help module.   If the
user desires to go directly to the report,   this routine
queries the user for the first set of attributes and attri-
bute descriptions.   After the user's   selections are
obtained, the routine searches the appropriate data base
files to locate all records that satisfy the user specified
attribute and attribute description.   Attributes are field
names such as RANK, COMPANY,   RFLQUAL, etc.   Up to three
attributes from any data base files (the data base file
location is invisible to the user)   may be specified by the
user.   Multiple attributes are automatically joined by the
routine using a logical "and" operation.   The routine

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employs a series of case statements. For each attribute
selected, the attribute name is stored. Slctdesc.prg is
called which stores an attribute description such as E5 (for
RANK) or A CO (for COMPANY) or EX (for RFLQUAL). After the
user has finished selecting attributes and attribute
descriptions, the routine identifies the correct database
files and either creates a temporary file containing the
needed information or ,if only two database files are
involved, primary and secondary files are identified. The
report is then displayed. Figure 4.2 depicts the sequence
of screen displays for attributes and descriptions of
"COMPANY is A CO" .AND. "RANK is E5" .AND. "PLATOON is 1ST
PLAT".

```
+-------------------------------------------------------------+
|  +-------------------------------------------------------+  |
|  |                                                       |  |
|  |     NONSTANDARD REPORT GENERATOR                      |  |
|  |     LOCATE ALL MARINES THAT SATISFY THE FOLLOWING;    |  |
|  |      <ATTRIBUTE>              <DESCRIPTOR>             |  |
|  |      ----------               ----------              |  |
|  |       COMPANY      IS          A CO                   |  |
|  |       RANK         IS          E5                     |  |
|  |       PLATOON      IS          1ST PLAT               |  |
|  |    PRESS 'ENTER' TO CONTINUE                          |  |
|  |                                                       |  |
|  |                                                       |  |
|  +-------------------------------------------------------+  |
+-------------------------------------------------------------+
```

Figure 4.2   Attributes and Descriptors Display

        b.   Nonstandard Help Routine (Nostdhlp.prg)

        This routine responds to the user's request for
"HELP" while in the Nonstandard Report Menu. It displays a
brief explanation of the attribute and attribute description
process.

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c. Select Attribute Routine (Slctarti.prg)

This routine prompts the user to select attributes. After the first and second selection the user is asked if he wants to select another attribute (only three attributes are permitted, therefore after the third attribute and attribute description set have been selected the routine automatically executes the user request). If the response is yes, the selection procedure is repeated. This process is continued until the user answers no or three attributes have been selected. The routine locates the appropriate data base files and displays the NAME, SSN, and attribute information for each record that satisfies the user's specified criteria.

d. Select Descriptor Routine (Slctdesc.prg)

This routine prompts the user to select attribute descriptions. Each attribute description is stored into a memory variable for later use when the database files are searched. An attribute description is selected for each attribute.

5. Standard Report Generator Module

a. Standard Report Routine (Stdrpt.prg)

This routine generates the primary menu for standard report selection and stores the user's response in a memory variable. Control is then passed to the appropriate subroutine to obtain the necessary data from the database. This routine will continue until the user responds with a "Q" (QUIT). Figure 4.3 displays the Standard Report Menu.

```
+-------------------------------------------------------------------+
|                     STANDARD REPORT SELECTION                     |
|        SELECT REPORT BY ENTERING THE APPROPRIATE LETTER           |
|                                                                   |
|            A...UNIT ROSTER                                        |
|            B...TRAINING STATUS REPORT                             |
|            C...TRAINING ROSTER REPORT                             |
|            D...INDIVIDUAL TRAINING RECORD                         |
|            E...MARKSMANSHIP STATUS REPORT                         |
|            F...MARKSMANSHIP ROSTER REPORT                         |
|            G...MOS STATUS REPORT                                  |
|            H...MOS ROSTER REPORT                                  |
|            I...PERSONAL DATA REPORT                               |
|            J...EST STATUS REPORT                                  |
|            K...EST ROSTER REPORT                                  |
|            L...SWIM QUALIFICATION REPORT                          |
|            M...HELP                                               |
|                                                                   |
|            Q...QUIT                                               |
|       SELECT OPTION ====>:                                        |
|                                                                   |
|                                                                   |
+-------------------------------------------------------------------+
```

Figure 4.3   Standard Report Menu

    b.   Select Unit Routine (Slctunit.prg)

        This routine prompts the user to select the size
and name of the unit (i.e., battalion, company, platoon) for
the report generation. The user responds with a letter that
corresponds to a user installed company or platoon
designation.

    c.   Unit Roster Routine (Unitrost.prg)

        This is a control routine which creates the
personnel roster for the unit specified by the user's
response to the Slctunit Menu. Figure 4.4 displays a copy
of the Personnel Roster Report.

    d.   Training Status Routine (Trngstat.prg)

        For the selected unit, this routine calculates
the total number of training elements completed for each
training category. For example, the training category

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```
+---------------------------------------------------------------+
|                        UNIT RCSTER                            |
|      NAME                RANK             PRIMARY MOS          |
|   BAKER, STEVE N.        E4                 0311               |
|   CARY, R. V.            E5                 0311               |
|   CASTIN, D. P.          E1                 0311               |
|   DCNNELY, R. G.         E6                 0331               |
|   PRESS 'ENTER' TO CONTINUE                                   |
|                                                               |
|                                                               |
+---------------------------------------------------------------+
```

Figure 4.4   Personnel Roster Report

"HISTCRY" ccnsists of three training elements (A, B, C). A percent completed figure is calculated for each training element by dividing the total training elements ccmpleted (EX. ZZAHIS, ZZBHIS, ZZCHIS) by the total number of persconnel in the unit (ZZTOTAL). Both the totals for each element and the percent completed figures are shown (see Figure 4.5).

  e. Training Count Routine (Cntest.prg)

    This routine counts the number of essential subject training elements that have been completed in the unit cr subunit specified.

  f. Qualification Ccunt Routine (Cntqual.prg)

    This routine saves all memory variables in a memory file (ZZTCTAL) and then counts the number of persons that have not completed SWIMQUAL, RFLQUAL, PSTQUAL and perscrs in the unit nct required to qualify (NA).

```
┌──────────────────────────────────────────────────────────────┐
│                                                                │
│              TRAINING STATUS REPORT                            │
│     CCDE CF CONLUCT...      42 PERCENT COMPLETED A...75         │
│                             80 PERCENT COMPLETED B...144        │
│                             48 PERCENT COMPLETED C...86         │
│                                                                │
│     MARINE CORPS HISTORY...73 PERCENT COMPLETED A...131         │
│                             82 PERCENT COMPLETED B...147        │
│                             66 PERCENT COMPLETED C...119        │
│                                                                │
│     CLCSF ORDER DRILL...    46 PERCENT COMPLETED A...83         │
│                             64 PERCENT COMPLETED B...115        │
│                             79 PERCENT COMPLETED C...142        │
│                                                                │
│                                                                │
│     PRESS 'ENTER' TC CONTINUE                                  │
│                                                                │
│                                                                │
└──────────────────────────────────────────────────────────────┘
```

Figure 4.5   Training Status Report

   g.   Training Roster Routine (Trngrost.prg)

        This routine   provides   the   Training Rcster
Report.   It starts at the top of the Pers.dbf and looks at
each reccrd individually.   If a record corresponds tc the
unit selected by the user, the routine Trngrpt.prg is called
which ccllects and displays the training data   that ccrre-
sponds tc the current Pers.dbf record (e.g., If the user
wants training data cn every member of 1ST PLAT, A CO,
Trngrcst.prg locates each   record in   the Pers.dbf which
belongs to 1ST PLAT, A CO.   Trngrpt.prg then displays the
training data from the appropriate data base files.).
Informaticn on one individual is displayed in six rows.
Four sets cf data are displayed per screen.   The user
presses the "enter" key to scrcll forward to each succeeding
screen display.

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h. Training Roster Format Routine (Trngrpt.prg)

This defines a coded report format which displays COC, HIS, MKS, COD, INT, TAC, NBC, PFT1CLSS, PFT2CLSS, UNI and AID for each member of the unit or subunit selected.

i. Marksmanship Status Routine (Mksstat.prg)

This routine creates a temporary file which contains the current year rifle and pistol qualification results for each member in the selected unit or subunit. The results are summed by qualification category for the rifle and pistol. Percentages are calculated and displayed in a summary status report which is automatically displayed on the screen. From this module a simple decision support submodule may be called at the discretion of the user. If the user desires to analyze his remaining rifle range quotas and compare them with his total number of range requirements for the current year, he may elect to "Analyze Rifle Range Quotas" (See Quota Study Routine for a more complete description.). Figure 4.6 displays the Marksmanship Status Report.

j. Convert Unit Routine (Cvrtunit.prg)

This routine stores the name of the company and platoon selected (unit and subunit) by the user during routine 'Slctunit'. This is necessary because when the user selects a unit and subunit, it is done by menu selection. Accordingly the only thing stored into memory is the corresponding letter from the menu provided by Slctunit.prg (A, B, C, D, E). Some screen displays require the unit name (e.g., "A CO" vice "A") so a conversion is necessary.

```
+------------------------------------------------------------------+
|                                                                  |
|        MARKSMANSHIP STATUS REPORT                                |
|                                                                  |
|   RIFLE EXPERT...        48      PISTOL EXPERT...        3        |
|   RIFLE SHARPSHOOTER...36         PISTOL SHARPSHOOTER...0         |
|   RIFLE MARKSMEN...       48      PISTOL MARKSMEN...       2      |
|   UNQUALIFIED...          16      UNQUALIFIED...          0       |
|                                                                  |
|        PERCENTAGES                                               |
|                                                                  |
|   RIFLE EXPERT...        32      PISTOL EXPERT...        60       |
|   RIFLE SHARPSHOOTER...24         PISTOL SHARPSHOOTER...0         |
|   RIFLE MARKSMEN...       32      PISTOL MARKSMEN...       40     |
|   UNQUALIFIED...          11      UNQUALIFIED...          0       |
|                                                                  |
|   PRESS 'ENTER' TO CONTINUE                                      |
|                                                                  |
|                                                                  |
+------------------------------------------------------------------+
```

Figure 4.6   Marksmanship Status Report

    k.   Quota Study Routine (Qtastudy.prg)

        The Qtastudy.prg and the Quotapad.prg make up
the decision support submodule.   This module is used by
Mksstat.prg and displays the range quotas that remain for
the current year.   The current month is extracted from the
log on date. The range quotas for each unit are stored in a
memory file during the annual initialization procedure. The
appropriate set of range quotas for the unit involved is
retrieved and stored into memory variables.   Summary infor-
mation is provided concerning the relationship between
remaining range quota requirements and remaining range quota
allocations.   Upon conclusions of the module the user may
return to the Standard Report Menu or to a scratch pad to
revise quota assignments.   Revised quota assignments from
the scratch pad can either be permanently saved in the range
quota memory file or ignored.   See Appendix B for a more
detailed description.

1.   Quota Scratch Pad Routine (Quotapad.prg)

This module gives the user an opportunity to interactively modify the remaining monthly rifle range quotas for his unit. This can be done an unlimited number of times. Each time the screen display returns to the actual monthly allocation as base data. After each iteration, the new set of range quotas is totaled and compared to the number of rifle range quotas required by the unit for the remainder of the year. A comment is displayed which indicates the net result (scratch pad quotas less than requirements, scratch pad quotas greater than requirements, or scratch pad quotas equal to requirements). However, if the user elects to permanently replace the monthly quota allocation in memory, he may do so by selecting the "Replace Current Quotas" option.

m.   Marksmanship Roster Routine (Mksrost.prg)

This routine creates a temporary file which includes NAME, RFLQUAL, RFLDATE, PSTQUAL, PSTDATE for each member in the selected unit or subunit. A standard report format (B:Mrksrpt) is used to display the Marksmanship Roster Report (see Figure 4.7).

n.   MOS Status Routine (Mosstat.prg)

This routine produces the MOS Status Report. Each type of MOS in the specified unit or subunit is counted and totaled, regardless of the type or number of different MOS's in the particular unit or subunit. The results are then displayed by MOS and by rank (see Figure 4.8).

c.   MOS Roster Routine (Mosrost.prg)

This is a control routine which creates the Personnel Roster for the unit or subunit specified by the user's response to the Slctunit Menu (see Figure 4.9).

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```
MARKSMANSHIP ROSTER REPORT
    NAME            RANK        QUAL DATE           QUAL
 ----------        ----        ---------          -----
EAKER, STEVE N.     E4         100184               EX
CARY, R.V.          E5         050184               MM
CASTIN, D.P.        E1         050184               UN
DCNNELY, R.W.       E6         DDMMYY               **

PRESS 'ENTER' TO CONTINUE
```

Figure 4.7   Marksmanship Roster Report

```
          MOS STATUS REPORT A CO,  3RD PLAT
MCS             RANK               TOTAL
0311            E1                   8
0311            E2                  12
0311            E3                   9
0311            E4                   8
0311            E5                   3
```

Figure 4.8   MOS Status Report

p.   Personnel Data Routine (Persdata.prg)

This is a control routine which creates the Personnel Roster for the unit or subunit specified by the user's response to the Slctunit Menu.

q.   Personnel Data Format Routine (Mosrpt.frm)

This defines a dBASE II report format which has already been determined and is stored in memory.

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```
+--------------------------------------------------------------------+
|                                                                    |
|          MOS ROSTER REPORT                                         |
|       NAME           RANK       PRIMARY          SEC               |
|                                 MOS              MOS               |
|                                                                    |
|   * MOS 0311                                                       |
|   BAKER, STEVE N.     E4        0311             0331              |
|   PCILARD, R.W.       E2        0311             ****              |
|   CARY, R.V.          E5        0311             ****              |
|   PHILLIP, D.P.       E4        0311             ****              |
|                                                                    |
|   PRESS 'ENTER' TO CCNTINUE                                        |
|                                                                    |
+--------------------------------------------------------------------+
```

Figure 4.9   MOS Roster Report

r.   EST Status Routine (Eststat.prg)

This routine creates a temporary file that
includes all essential subject and PFT fields from the
Est.dbf for members in a user specified unit or subunit.
From this temporary file the routine counts the total number
of unit members that have completed all elements in each
training category.   The EST Status Report is displayed and
includes totals for each training category and the percent
completed (see Figure 4.10).

s.   EST Count Routine (Cntest.prg)

This is a short routine that counts the total
training categories containing an "*" which indicates a
training element has not been completed (i.e., It counts the
number of training categories that currently include one or
more training elements that have not been completed).

t.   EST Roster Routine (Estrost.prg)

This is a control routine which creates the
Personnel Roster Report for the unit or subunit specified by
the user's response to the Slctunit Menu.

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```
+-------------------------------------------------------------------+
|                                                                   |
|               EST STATUS REPCRT                                   |
|     CCDE CF CONDUCT...           42 PERCENT COMPLETED...76         |
|     MARINE CCRPS HISTCRY...      84 PERCENT COMPLETED...151        |
|     CLCSE ORIER DRILL...         39 PERCENT COMPLETED...70         |
|     INTERIOR GUARD...            63 PERCENT COMPLETED...113        |
|     FIRST AID...                  8 PERCENT COMPLETED...14         |
|                                                                   |
|       PRESS 'ENTER' TO CONTINUE                                   |
|                                                                   |
|                                                                   |
+-------------------------------------------------------------------+
```

Figure 4.10   EST Status Report

u.   EST Report Format Routine (Estrpt.prg)

This routine formats and displays the EST Roster
Report. It is called by Estrost.prg.

v.   Swim Qualification Routine (swimqual.prg)

This routine displays the Swim Qual Report for
the selected unit or subunit. The Swim Qual Report consists
of each Marine's NAME, RANK, UNIT, and swimming qualifica-
tion status.   At the end of the report, summary data is
displayed which includes the totals for each qualification
categcry and the overall total for the unit or subunit.
Figure 4.11 is a copy of the Swimming Qualification Status
Report.

w.   Swim Repcrt Routine (Swimrpt.prg)

This routine, called by Swimqual.prg counts and
stores the number cf personnel in the selected unit or
subunit that are in each swimming qualification category.
Also, this routine displays the NAME, RANK, COMPANY and
swimming qualificaticn for each member of the unit or
subunit.

55

```
+-------------------------------------------------------------------+
|                                                                   |
|    BAKER, STEVE N.                    E4        A CO               |
|    SWIM QUAL S3                                                    |
|                                                                   |
|    CARY, R.V.                         E5        A CO              |
|    SWIM QUAL S2                                                    |
|                                                                   |
|    PHILLIP, D.P.                      E4        A CO              |
|    SWIM QUAL WS                                                    |
|                                                                   |
|                                                                   |
|                     SUMMARY DATA                                  |
|    SWIM QUALIFICATION                     TOTAL                   |
|    WS                                       3                     |
|    S1                                      36                     |
|    S2                                      54                     |
|    S3                                      49                     |
|    UNQUALIFIED                             36                     |
|                                         --178---                  |
|                                                                   |
|    PRESS 'ENTER' TO CONTINUE                                      |
|                                                                   |
+-------------------------------------------------------------------+
```

Figure 4.11   Swimming Qualification Status Report

        x.   Help Routine (Help.prg)

        This routine provides a functional description
of each report listed in the Standard Report Selection Menu.

    6.   Maintenance Module

        a.   Maintain Control Routine (Maintain.prg)

        The Maintain Control Routine produces a   menu,
Figure 4.12,   that allows   the user   to select   the desired
function.   This module restricts access when the function
has a critical capability.   Only the Data Base Administrator
(DBA) and the Assistant DBA have access to all functions.

        b.   View Control Routine (Viewitr.prg)

        This module queries the user for the name of the
individual whose training record is   to be viewed.   The

```
+-------------------------------------------------------------------+
|                                                                   |
|                   MAINTENANCE MODULE MENU                         |
|          SELECT CNE OF THE FOLLOWING OPTIONS                      |
|                  V...VIEW INDIVIDUAL DATA                         |
|                  U...UPDATE DATA                                  |
|                  C...CREATE AN ITR                                |
|                  D...DELETE AN ITR                                |
|                  S...SYSTEM FUNCTIONS                             |
|                  H...HELP                                         |
|                *Q...QUIT*                                         |
|          SELECT OPTION ===>:                                      |
|                                                                   |
+-------------------------------------------------------------------+
```

Figure 4.12   Maintenance Module Menu

routine controls the search and   creation of   the formatted
screen that displays the ITR.   The   routine asks the user a
series of   questions that   can be answered   with yes   or no.
This   routine allows   only   the data   to   be displayed (see
Figure 4.13).

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```
                    INDIVIDUAL TRAINING RECORD
                              :    GRADE:  :   MOS:    :/:    :
NAME:LAST, FIRST MI.
BIRTHDATE.....:DDMMYY:          SSN....:        :
CO:  :PLAT:       :JOIN:DDMMYY: EAS.:DDMMYY:GAS MASK..:  :
MIL CODE OF CONDUCT:***:        IT 11.....:  0:/:   DATE:DDMMYY:
HISTORY OF MARCOR..:***:        IT 12.....:  0:/:   DATE:DDMMYY:
DRILL.........:***:             NBC....:******:
INTERIOR GUARD.....:***:        MARKSMANSHIP....:******:
FIRST AID.........:******:INDIVIDUAL TACTICAL
EQUIP & UNIFORM...:***:         MEASURES.........:******:

SWIM QUAL..:S : DATE:DDMMYY:    WEIGHT CONTROL...:
RIFLE QUAL..:000:/:  DATE:DDMMYY:       WEIGHT...:000:
PISTOL QUAL.:000:/:  DATE:DDMMYY:       HEIGHT...:00:

ELECTRONIC WARFARE..:******:    DRUG ABUSE........:******:
CLD WEATHER........:******:     ALCOHOL ABUSE....:******:
LAW OF WAR........:******:      HUMAN RELATIONS..:******:
TRAINING MOS......:****:        PERSONAL AFFAIRS.:******:
LEADERSHIP........:******:      UCMJ............:******:
CHAR & MORAL ED...:******:
COMMENTS.:F:
```

Figure 4.13   ITR Screen Format

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c. ITR Screen Format Routine (Itrscrn.prg)

This routine produces the electronic ITR on which an individual's data is displayed.

d. Screen Data Retrieval Routine (Getdata.prg)

The Getdata.prg communicates with the DBMS and retrieves the data for a particular individual. It then sends the data to the appropriate position on the screen that corresponds to the ITR format. The DBMS locates individuals by their SSN. Four data base files are used to create an ITR; Pers.dbf, Est.dbf, Qual.dbf, and Infomisc.dbf.

e. Comment Retrieval Routine (Getcmmnt.prg)

If unstructured comments exist for an individual, the routine will instruct the DBMS to search for them. The comment information will then be displayed on the screen.

f. Update Control Routine (Updtitr.prg)

The Update Control Routine questions the user concerning which ITR is to be updated. The routine determines if the individual is in the data base and controls the update of the ITR. The routine allows the user to update as many ITR's as desired. The data is displayed on the screen in the ITR format and allows a modified form of full screen editing.

g. Data Update Routine (Updata.prg)

This routine requires the user to type in the name of the field to be updated. The routine then highlights that field and permits data to be entered. When the data has been entered this routine initiates error checking

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and initiates calculations.   The data is then stored in the data base.

     h.   ITRM Creation Routine (Creatitr.prg)

        The creation of a new ITR for an individual is controlled by this routine.   It initiates the formatting of the screen and controls the routine which gathers the data for the individual.   The routine allows multiple records to be created.

     i.   ITR Data Initialization Routine (Indata.prg)

        This routine initializes the data base and allows the user to enter data for an individual by field. Once the data has been entered the module initializes error checking and calculations that may pertain to the data fields.   If unstructured comments are to be entered, the routine controls this process.   The ITR Data Initialization Routine instructs the DBMS to store the data in the appro- priate data base files.

     j.   Data Error Checking Routine (Error.prg)

        This routine performs the error checking for the system during data entry.   Since this is a prototype system, error checking is not extensive.   Dates, value ranges, and acceptable characters are the limits of the error checking. Dates are only checked for limits in number of months, days in the month, and acceptable year window.   Specific months are not matched to specific number of days.   The system does catch the most common errors caused by gross typing mistakes but may not catch slight errors if the values are within specified limits.

k.   Calculation Routine (Calculat.prg)

The Calculation Routine performs the calculations necessary to reproduce training tables concerning weight/height standards, physical fitness standards by age, rifle qualification levels , and pistol qualification levels. When the information that is needed for these calculations has been entered in the data base the system recalculates the related fields and enters the new qualifications in the data base.

l.   Comment Update Routine (Wrtcmmnt.prg)

This routine finds the individual's comment record in the data base and updates the information with new data. It then stores the data back into the data base.

m.   Comment Creation Routine (Crtcmmnt.prg)

The Comment Creation Routine creates an unformatted comment record for an individual in the data base. The comment record is filled with asterisks that will be typed over when data is inserted.

n.   Delete ITR Routine (Deletitr.prg)

This routine is limited to the DBA and Assistant DBA only. The routine queries the user for the name of the individual to be deleted. It then finds the individuals ITRM information and displays the data in ITR format. A second verification, that this individual is to be deleted, is obtained at this time. The module then deletes the individual from all the data base files. This deletion is permanent and there is no recovery of deleted records.

c. System Function Control Routine (System.prg)

The control of system functions is accomplished by this routine. Like all previous routines, this routine is menu driven (see Figure 4.14). The user selects the menu option that performs the desired function, and calls the appropriate routine.

```
.-------------------------------------------------------------.
|                                                             |
|                                                             |
|                 SYSTEM FUNCTION MENU                        |
|          SELECT ONE CF THE FOLLOWING OPTIONS                |
|                 I...INSTALL SYSTEM                          |
|                 S...SYSTEM RESET (YEARLY)                    |
|                 A...ACCESS LIST MAINTENANCE                  |
|                 Q...CUIT TC MAINTENANCE MENU                 |
|          ENTER CFTION ===>:                                 |
|                                                             |
|                                                             |
'-------------------------------------------------------------'
```

Figure 4.14   System Function Menu

p. System Installation Routine (Install.prg)

Units in the Marine Corps often have different names. The system allows the DBA to name his units to correspond to the actual names of the battalion's units. The system also initializes the current year. This information is then stored on a file which is recalled whenever the system is functioning.

q. System Reset Routine (Sysreset.prg)

Training in the Marine Corps is based on a yearly cycle and requires that individuals requalify in certain areas once or more a year. This routine resets globally all the fields in the data base that must be

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requalified each year.   The routine allows the DBA to enter
the yearly range quotas.   The DBA can use this routine to
update those quotas, but this is not recommended.   The capa-
bility also exists in the Standard Report Generators DSS.

r.   System Access Control Routine (Rstaccss.prg)

The DBA must be able to change the access list
by deletions or additions.   This routine displays a menu,
(Figure 4.15) that gives the DBA options to choose.   This
routine gives the DBA the ability to manage access to the
system and maintain a list of users.   It is not recommended
that the DBA keep a printed copy of this list unless it is
in a secured environment.   The system will list each user,
user identification code, user password, and authorization
level.

```
+==============================================================+
|  .                                                           |
|                    SECURITY ACCESS LIST                      |
|              CHOOSE OPTION TO BE EXECUTED                     |
|                                                              |
|             L...LIST ALL USERS                               |
|             A...ADD TO ACCESS LIST                           |
|             D...DELETE FROM ACCESS LIST                      |
|             Q...QUIT TO SYSTEM FUNCTION MENU                 |
|                                                              |
|        ENTER OPTION ====>:                                   |
|                                                              |
|                                                              |
+==============================================================+
```

Figure 4.15   Access Function Menu

V. CONCLUSION

A. GENERAL

The thesis concept statement is written in general terms
and therefore, is subject to qualitative evaluation only.
This approach is intended for the following reason. During
the conception phase of the project, we had only a vague
intuitive "feel" for such things as reasonable system costs,
acceptable response times, operator training requirements,
and the ultimate "user friendliness" that could be achieved.
Because functional requirements are not well defined at this
point, an attempt to impose stringent quantitative standards
is premature. Furthermore, quantitative goals shift the
emphasis toward achieving system efficiency and away from
defining system effectiveness. In other words, the purpose
of this thesis is to prove a general concept through the
development of a working prototype. The general concept
includes simplicity of operation and maintenance. System
efficiency is not a significant consideration. The reader
will notice, however, that system specifications are defined
using quantifiable objectives where feasible, the distinc-
tion being that the system requirements determined by the
user may not be satisfied by the first generation prototype.
As the user becomes more familiar with the capabilities of
the system, requirements will become more clearly defined.
With this approach the overall system concept may be valid
while some system requirements have not yet been attained
(i.e., in the first generation prototype).

B. SYSTEM SPECIFICATIONS (FUNCTIONAL)

All system specifications, except those referred to below, have been satisfied by the prototype.

1. Storage Limitations

The prototype cannot adequately handle the specified 800 records . The limiting constraint is available storage. All system software resides on four double-sided, double-density 5 1/4 inch floppy disks (360k bytes each). The first two disks are program disks which are stored directly into RAM memory. The second two disks contain all of the data base files. Data base files are read into working storage only when they are being used by the system. Each Marine in the data base requires approximately 550 bytes of data (or 4.4k bits). Due to the DBMS's required overhead the prototype can accommodate approximately 180 Marines. In order to achieve the specification requirement of 800 Marines, a storage device capacity of two megabytes or more is required (e.g., hard disk drive).

2. Retrieval Limitations

All standard reports can be retrieved by unit or subunit. However, the standard report does not include the facility to retrieve data by other user defined attributes This facility is, however, included in the nonstandard report. The nonstandard report may include up to three user defined attributes and attribute descriptions.

C. SYSTEM SPECIFICATIONS (NON-FUNCTIONAL)

1. Training

Most of the non-functional specifications relate to the operator training effort required to implement the

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system. It is our judgement that the prototype satisfies these requirements.

2. Error Checking

Operator input is range checked, data type checked, and checked for field length (characters in excess of the maximum field length are truncated). In a fully implemented system error checking would be expanded and diagnostic error messages sent to the user.

3. Table Mapping

Mapping of rifle, pistol and PFT scores into qualification categories is invisible to the user. In addition, a weight control table is embedded. When an individual's height and weigh are entered the weight control table is referenced. If his weight is in excess of allowable standards for his height, he is automatically assigned to the "weight control program" by assigning a boolean variable of "T" to the weight control field in his training record.

D. SUBSEQUENT SYSTEM DEVELOPMENT

The next step in the development of the system is to place the system into the hands of the user to accomplish the following objectives:

a. Define user training requirements;

b. Achieve user familiarity;

c. Evaluate and quantify existing functional requirements;

d. Define additional quantifiable functional requirements;

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e. Design and develop second generation prototype based on new set of user defined functional requirements.

E. SUMMARY

The objective of the Thesis was to prove the feasibility of a concept. It is reasonable to conclude that the concept has been proven through the design, the implementation, and the demonstration of a working prototype.

APPENDIX A
DATA ELEMENT DICTIONARY

All data elements that exist in the individual training data management system are contained in one of seven data base files. The only exception is the data element SSN. SSN is a key field field and is therefore included in the record structure of multiple files. The following information is used to describe each data base file:

A. FIELD

Each data element belongs to a specific field within the record structure. Fields are numbered sequentially. For example, field 03 in the data base file called Pers is the data element named Rank.

B. NAME

Each data field has a unique name which always refers to that specific information that is contained in the data field (example; PrimeMOS contains the primary MOS of each member in the data base).

C. TYPE

Each data field is defined to be one of three possible data types:
1. Character (C)
2. Numeric (N)
3. Logical (L)

D. WIDTH

This characteristic describes the maximum length of the data field. Information in the data field may not exceed the number of spaces that have been set aside for that particular field (all characters and blanks are included when counting the number of spaces in a field).

E. DESCRIPTION

This column contains a narrative description of the field. In many instances, examples (Ex.) are used to describe the structure of a typical data element.

F. DATA BASE FILES

1. Pers (Personnel)

Field	Name	Type	Width	Description
01	SSN	C	09	Ex. 240707765
02	Name	C	30	Last name followed by a comma, First name and Middle Initial. (Ex. Smith, Jack E.)
03	Rank	C	02	Pay grade (Ex. E2, 01)
04	Primemos	C	04	Primary Military Occupational Specialty (Ex. 0311)
05	Secmos	C	04	Secondary MOS
06	Company	C	06	Ex. A CO, HHS CO, A BTRY
07	Platoon	C	09	Ex. 1ST PLAT, GUN PLAT, WPSN PLAT, HDQTRS
08	Joindate	C	06	The date (DDMMYY) member joined the unit.
09	EAS	C	06	Expiration of Active Service (DDMMYY)
10	Brthdate	C	06	Date of birth (DDMMYY)
11	Comment	L	01	A boolean variable (F/T) for which T indicates that a comment record exists.
12	Height	C	02	Individual's height in inches
13	Weight	C	03	Individual's weight in pounds
14	Wtcont	L	01	A boolean variable (F/T) for which T indicates that the individual is on weight control.
15	Gasmask	C	01	Gas mask size (S, M, L)

2. EST (Essential Subjects Testing)

Field	Name	Type	Width	Description
01	SSN	C	09	EX. 240707765
02	COC	C	03	Code of Conduct contains an entry for each training element (A,B,C).
03	HIS	C	03	History of the Marine Corps contains an entry for each training element (A,B,C).
04	COD	C	03	Close Order Drill contains an entry for each training element (A,B,C).
05	INT	C	03	Interior Guard contains an entry for each training element (A,B,C).
06	AID	C	11	First Aid contains an entry for each training element (A,B,C,D,E,F,G,H,I,J,K).
07	UNI	C	03	Equipment & Uniforms contains an entry for each training element (A,B,C).
08	PFT1RAW	N	03	Includes the numeric score for the first annual physical fitness test (RANGE:00-300).
09	PFT1DATE	C	06	Date of first physical fitness test (DDMMYY).
10	PFT1CLSS	C	01	Results of first physical fitness test (1,2,3,U).
11	PFT2RAW	N	03	Includes the numeric score for the second annual physical fitness test (RANGE: 00-300).
12	PFT2DATE	C	06	Date of the second physical fitness test.
13	PFT2CLSS	C	01	Results of second physical fitness test (1,2,3,U).
14	NBC	C	06	NBC contains an entry for each training element (A,B,C, D,E,F).
15	MKS	C	06	Marksmanship contains an entry for each training element (A,B,C,D,E,F).
16	TAC	C	05	Individual Tactical Measures contains an entry for each training element (A,B,C,D,E).

3. QUAL (Qualifications)

Field	Name	Type	Width	Description
01	SSN	C	09	EX. 240707765
02	SWIMQUAL	C	02	Swimming Qualification (WQ, S1,S2,S3).
03	SWIMDATE	C	06	SWIMQUAL date (DDMMYY).
04	RFLSCORE	C	03	Numeric rifle score (RANGE: 000-250).
05	RFLQUAL	C	02	Rifle Qualification (EX,SS, MM,UN).
06	RFLDATE	C	06	Date of RFLQUAL (DDMMYY).
07	PSTSCORE	C	03	Numeric pistol score (Range: 000-300).
08	PSTQUAL	C	02	Pistol Qualification (EX,SS, MM,UN).
09	PSTDATE	C	06	Date of PSTQUAL (DDMMYY).

4. __INFCMISC (Information Miscellaneous)__

Field	Name	Type	Width	Description
01	SSN	C	09	EX. 240707765
02	ELECWAR	C	06	Electronic Warfare contains an entry for each training element (A,B,C,D,E,F).
03	CLDWTHR	C	06	Cold Weather Training contains an entry for each training element (A,B,C,D,E,F).
04	LAWWAR	C	06	Law of War contains an entry for each training element (A,B,C,D,E,F).
05	MOS	C	04	MOS Training contains an entry for each training element (A,B,C,D).
06	LDRSHP	C	06	Leadership Training contains an entry for each training element (A,B,C,D,E,F).
07	DRUG	C	06	Drug Abuse contains an entry for each training element (A,B,C,D,E,F).
08	ALCOHOL	C	06	Alcohol Abuse contains an entry for each training element (A,B,C,D,E,F).
09	HUMREL	C	06	Human Relations contains an entry for each training element (A,B,C,D,E,F).
10	PERSAFFR	C	06	Personal Affairs contains an entry for each training element (A,B,C,D,E,F).
11	UCMJ	C	06	UCMJ contains an entry for each training element (A,B,C,D,E,F).
12	CHRMORED	C	06	Character and Moral Education contains an entry for each training elements(A,B,C,D,E,F).

5. __SECURITY (Access Information)__

Field	Name	Type	Width	Description
01	USERID	C	05	Numeric code that uniquely identifies each user.
02	USERPASS	C	08	Alphanumeric code that uniquely identifies each user.
03	AUTHLEV	N	01	Numeric code that defines authorization level for each user.
04	NAME	C	15	Alphanumeric that identifies the user.

6. __CCMMENTS (Non-formatted Information)__

Field	Name	Type	Width	Description
01	SSN	C	09	EX. 240707765
02	INFCTXT1	C	25	Unstructured comments.
03	INFCTXT2	C	25	Unstructured comments.
04	INFCTXT3	C	25	Unstructured comments.
05	INFOTXT4	C	25	Unstructured comments.
06	INFCTXT5	C	25	Unstructured comments.
07	INFCTXT6	C	25	Unstructured comments.

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```
08      INFCTXT7  C    25      Unstructured comments.
09      INFOTXT8  C    25      Unstructured comments.
10      INFCTXT9  C    25      Unstructured comments.
11      INFOTXT0  C    25      Unstructured comments.
```

APPENDIX B
DECISION SUPPORT SYSTEM (DSS) DESCRIPTION

A. BACKGROUND

The management of training records includes many routine tasks that are repetitious and highly structured. Many of these tasks incorporate low level, well-defined or semi-structured, independent decision making processes. Heretofore, these tasks have been manually implemented at the cost of many manhours, and sometimes decisions have been made without making the best use of available information. Too often the result has been wasted effort, frustration, and incorrect decisions.

B. PURPOSE

The purpose of this submodule is to demonstrate the application of a "first generation" prototype DSS that will achieve the following:

  a. Demonstrate typical capabilities of DSS in the training management environment.

  b. Demonstrate the small knowledge base necessary to implement a properly designed DSS.

  c. Serve as a "functioning prototype" to gain early user support and experience in order to further refine system requirements.

C. FUNCTIONAL DESCRIPTION

The DSS element of the software system product is implemented in the "Marksmanship Status Report" routine which is

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called by the "Standard Report Generator". When the user selects the "Marksmanship Status Report" from the "Standard Report Menu" the DSS submodule is implemented. The DSS submodule performs the following functions at the company level:

a. Calculates and displays a current "Marksmanship Status Report" which includes:

(1) A summary of rifle and pistol current year requalification data (number of experts, sharpshooters, marksmen, and unqualified).

(2) The total number of persons that have fired for qualification during the current year.

(3) The percent of experts, sharpshooters, marksmen and unqualified shooters based on the total number of people that have fired for qualification during the current year.

b. A company rifle range quota analysis may then be performed at the user's discretion. This routine includes the following functions:

(1) Calculates and displays a range quota analysis.

(2) The following summary information is displayed:

(a) Total number of Marines fired for qualification during current year.

(b) Total number of Marines fired for qualification during current year, but failed to qualify.

(c) Total number of Marines not required to fire for qualification during the current year.

(d) Total number of Marines to qualify before the end of the current year.

(3) A chart is displayed which shows the months remaining in the current year, the number of range

quotas allocated for each month, and the total number of rifle range quotas that remain for the current year.

(4) As appropriate, one of the following elements of information is displayed:

(a) Additional quota requirements for the year

(b) Excess quotas allocated for the year

(c) Quota requirements (number of person left to qualify) equal quota allocations.

c.   User's may manipulate allocations on a scratch pad to visualize different combinations of monthly quota allocations or to determine their effect on end of year results (the objective is to manage quotas so that quota requirements equal quotas allocated). If desired, a set of "scratch pad" range quotas can permanently replace the unit's range quota allocations for the remainder of the current year. If this option is elected all subsequent calculations will be based on the "new set of range quota allocations".

D. USER'S VIEW

1. Summary Information

Decision making is supported by providing summary information for the company. This snapshot of a unit's current marksmanship status demonstrates the degree of success of the unit's marksmanship training program. By comparing this summary to unit marksmanship objectives the system can be used as a control mechanism. The following types of decisions can be supported:

(1) Evaluate marksmanship training program for weaknesses as indicated by unsatisfactory qualification results to date.

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(2)   Evaluate unit qualification objectives for feasibility.

2. Support Depth

Decision making is supported at many levels from the platoon or company training NCO to the battalion operations officer.

3. Interdependence

Interdependent (sequential and pooled) decisions are supported.   For example, if one company permanently changes rifle range quota allocations this decision is captured by the system and reflected in any subsequent analysis

4. Restrictions

Due to the overriding system requirement for limited user training all processes are menu driven. This restricts the degree of user control and flexibility.   This is a significant compromise which reduces its effectiveness as a DSS.

E. BUILDER'S VIEW

1. Dialogue

The dialogue subsystem (implemented in dBase II) creates the user's view as discussed above. It performs all necessary data base functions, extracts and processes summary information.

2. Modelling

The model base subsystem includes the mathematical and process models necessary to use the "scratch pad" utilities.   For example, a model file is constructed in memory for each unit which has allocated quotas.   Quotas can be

selectively extracted, compared, permanently changed by the
user (provided the user has the appropriate system access
authorization). Models are not integrated, but each model
is fully integrated with the DBMS through the query
language. Integration of models is a desirable feature
(e.g., battalion should have the capability to total the
quotas of all companies on a monthly basis or on a remaining
current year basis) and could be implemented. This is the
type cf added requirement that should be defined by the user
during operation of this "first generation" prototype.

F. CONTENTS OF KNOWLEDGE BASE

Data Base files (DBF) contain qualification status of
each member for the current year and members not required to
fire for qualification during the current year.

Memory files (MEM) containing rifle range quotas for
each company are stored in separate memory files (see Figure
B.1 for example).

```
+-----------------------------------------------------------+
|                                                           |
|                    CORNGQTA.MEM                           |
|             VARIABLE NAME          VALUE                  |
|             QJAN          -         25                    |
|             QFEB                    25                    |
|             QMAR                    25                    |
|             QAPR                    25                    |
|             QMAY                    50                    |
|             QJUN                    50                    |
|             QJUL                    50                    |
|             QAUG                    50                    |
|             QSEP                    00                    |
|             QOCT                    00                    |
|             QNOV                    00                    |
|             QDEC                    00                    |
|                                                           |
|                                                           |
+-----------------------------------------------------------+
```

Figure B.1   Memory File

APPENDIX C

ITRS MASTER CONTROL MODULE LISTING

A. MASTER ROUTINE

```
* Routine Name: Master.prg
* Module Name: ITRS Master Control Module
* Version: 1.0
* Author: D.P. Haeusler
* Date: 28 Oct 83
* Variables Used: Thru, Valpass
* Variables Modified: None
* Variables Created: None
* Variables Released: None
* Files (opened/closed): None
* Temp Files Created: None
* Using Subroutines: None
* Description: This is the routine that controls the flow
* of the program.  This routine is an endless loop which
* requires the user to turn the computer off in order to
* enter another system.  This routine does not allow the
* users to directly enter the DBMS, the general intent is
* to make the DBMS completely transparent to users. Some
* house keeping is done to insure that the proper disks
* are in place.  This occurs by reading stored files on
* the disks and then checking the values.  The system will
* not continue untill the disks are in the proper drive.

SET CONSOLE ON
SET TALK OFF
SET ESCAPE OFF

STORE T TO AAENDLES
STORE F TO SWITCH
DO WHILE .NOT. SWITCH

    ERASE
    @ 9,25 SAY " REMOVE DISKETTES FROM THE DRIVES"
    @ 10,25 SAY " PLACE 'A' DATA DISK IN DRIVE 'A'"
    @ 11,25 SAY " PLACE 'B' DATA DISK IN DRIVE 'B'"
    @ 23,25 SAY "***** PRESS ANY KEY TO CONTINUE *****"
    SET CONSOLE OFF
    WAIT
    SET CONSOLE ON
    RESTORE FROM A:MEMDISK ADDITIVE
ENDDO
DO WHILE AAENDLES
    ERASE
    @ 10,27 SAY " UNITED STATES MARINE CORPS"
    @ 11,23 SAY " INDIVIDUAL TRAINING RECORD SYSTEM"
    @ 12,34 SAY "(PROTOTYPE) "
DO PAUSE
    @ 23,23 SAY "***** PRESS ANY KEY TO CONTINUE *****"
SET CONSOLE OFF
WAIT
SET CONSOLE ON
DO Access
RESTORE FROM A:MEMDISK ADDITIVE
STORE F TO SYSDATE
DO WHILE .NOT. SYSDATE .AND. AAVALPAS
    ERASE
```

```
        @ 11,24 SAY "ENTER TODAY'S DATE"
        ACCEPT "         DATE (DDMMYY) ===> " TO SYSDAY
        IF VAL($(SYSDAY,1,2)) < 32 .AND. VAL($(SYSDAY,3,2));
           < 13 .AND. VAL($(SYSDAY,5,2)) = CRNTYR
           STORE SYSDAY TO AADATE
           STORE T TO SYSDATE
        ELSE
           ERASE
           @ 8,24 SAY "IMPROPER DATE--REENTER"
           @ 9,24 SAY "**PRESS ANY KEY TO CONTINUE**"
           SET CONSOLE OFF
           WAIT
           SET CONSOLE ON
        ENDIF
ENDDO
RELEASE ALL EXCEPT AA??????
IF AAvalpas
   DO Cmddet
ENDIF
STORE T TO AAENDLESS
ENDDO
```

B. PAUSE ROUTINE

* Routine Name: Pause.prg
* Module Name: ITRS Master Control Module
* Version: 1.0.0.0.1.0
* Author:D.F. Haeusler
* Date: 30 Nov 83
* Variables Used: pause
* Variables Modified: pause
* Variables Created: pause
* Variables Released: pause
* Files (opened/closed): none
* Temporary Files Created: none
* Using Subroutines: Access.prg, Maintain.prg, Master.prg
* Description: This routine creates a delay while a message
* is being displayed.

```
STORE 1 TO pause
DO WHILE pause < 75
    STORE pause + 1 TO pause
ENDDO

RELEASE pause
RETURN
```

APPENDIX D
ACCESS MODULE LISTING

A. ACCESS ROUTINE

```
* Routine Name: Access.prg
* Module Name: Access Module
* Version: 2.0
* Author: D.P. Haeusler
* Date: 28 Oct 83
* Variables Used: aavalpass, password, idnum, validid,
*                 counter, thru, pause, passrec, aalevel
* Variables Modified: thru, aavalpass, validid, idnum,
*                     password, counter, pause, passrec,
*                     aalevel
* Variables Created: aavalpass, password, idnum, validid,
*                    counter, pause, thru, passrec,
*                    aalevel
* Variables Released: counter, pause, passrec, validid,
*                     thru
* Files (opened/closed): a:security (opened/closed)
* Temporary Files Created: none
* Using Subroutines: Master
* Description: This routine conducts the logon procedures
* to gain access into the system.  The routine will query
* the user for a user ID and a Password, after three
* incorrect responses the session will be terminated.
*
*   BEGIN Access

STORE f TO thru
STORE f TO AAvalpas
STORE "         " TO password
STORE "       " TO idnum
STORE f TO validid
STORE 0 TO counter

DO WHILE .NOT. validid .AND. .NOT. thru

    ERASE
    @ 12,25 SAY " ENTER ITRS USER NUMBER OR "
    @ 13,25 SAY " 'QUIT' TO TERMINATE SESSION "

    ACCEPT "        ENTER USER NUMBER ====> " TO idnum
    STORE !(idnum) TO idnum

    IF idnum = 'QUIT'
        STORE t TO thru
    ELSE
        ERASE
        USE A:SECURITY INDEX A:SECINDX
        FIND &IDNUM
        IF # = 0
            USE
        ELSE
            STORE TRIM (USERPASS) TO PASSREC
            STORE AUTHLEV TO AALEVEL
            STORE T TO VALIDID
        ENDIF
    ENDIF
```

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```
        IF .NCT. validid .AND. .NOT. thru .AND. COUNTER <> 2
            STCRE counter+1 TO counter
            ERASE
            @ 15,25 SAY "INVALID USEF NUMBER"
            @ 17,25 SAY " CHECK YOUR NUMBER "
            DO pause
        ELSE
            IF .NCT. VALIDIC .AND. .NCT. THRU .AND. COUNTER = 2
                STORE CCUNTER+1 TO COUNTER
            ENDIF
        ENDIF

        IF counter = 3
            STCRE t TO thru
            ERASE
            @ 12,20 SAY "***********************************************"
            @ 13,20 SAY "********** TERMINATE ACCESS ***********"
            @ 14,20 SAY "***********************************************"
        ENDIF

ENDDC

STORE 0 TO counter
DO WHILE .NCT. AAvalpas .AND. .NOT. thru

    ERASE
    @ 7,25 SAY " ENTER YOUR PASSWORD  OR "
    @ 8,25 SAY " 'QUIT' TC TERMINATE THE SESSION"
    @ 11,18 SAY " THE PASSWORD WILL NOT BE DISPLAYED "
    @ 14,25 SAY " ENTER PASSWORC ====> "

    SET CCNSCLE OFF

    ACCEPT " ENTER PASSWORD ==> " TO password

    SET CCNSCLE ON

    IF !(password) = 'CUIT'
        STCRE t TO thru
    ELSE
        IF !(password) = passrec
            STCRE t TO AAvalpas
        ELSE
            IF COUNTER <> 2
                STORE counter+1 TO ccunter
                ERASE
                @ 12,25 SAY " INVALID PASSWORD "
                @ 14,25 SAY " CHECK YOUR PASSWORD"
                DO pause
            ELSE
                STORE COUNTER+1 TO COUNTER
            ENDIF 3
        ENDIF 2
    ENDIF 1

    IF counter = 3
        STCRE t TO thru
        ERASE
        @ 12,20 SAY "***********************************************"
        @ 13,20 SAY "*********** TERMINATE ACCESS **********"
        @ 14,20 SAY "***********************************************"
    ENDIF
ENDDC
RELEASE counter, pause, passrec, validid, THRU
RETURN
```

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APPENDIX E

COMMAND DETERMINER MODULE LISTING

A. COMMAND DETERMINER ROUTINE

```
* Routine Name: Cmddet.prg
* Module Name: Command Determiner Module
* Version: 3.0
* Author: D.P. Haeusler
* Date: 30 Oct 83
* Variables Used: aafinish, cmdopt, helpopt
* Variables Modified: aafinish, cmdopt, helpopt
* Variables Created: aafinish, cmdopt, helpopt
* Variables Released: cmdopt, aafinish, helpopt
* Files (opened/closed): none
* Temporary Files Created: none
* Using Subroutines: Master
* Description: This routine creates a menu which is used
* to determine which options of the program will be
* executed by the user.  These options allow the user to
* control the use of the DBMS by the program.

STORE f TO AAfinish

DO WHILE .NOT. AAfinish
    ERASE
    @ 2,17 SAY "            USMC INDIVIDUAL TRAINING          "
    @ 3,17 SAY "                 RECORD SYSTEM               "
    @ 5,17 SAY "                   MAIN MENU                 "
    @ 7,17 SAY "    SELECT ONE OF THE FOLLOWING OPTIONS BY"
    @ 8,17 SAY "      ENTERING THE APPROPRIATE LETTER        "
    @ 10,17 SAY "      D...DATA ENTRY AND SYSTEM FUNCTIONS"
    @ 11,17 SAY "      S...STANDARD REPORTS                   "
    @ 12,17 SAY "      N...NONSTANDARD REPORTS                "
    @ 13,17 SAY "      H...HELP                               "
    @ 14,17 SAY "      Q...QUIT                               "

    ACCEPT "      SELECT OPTION ====>" TO cmdopt

    DO CASE
        CASE !(cmdopt) = 'D'
            DO maintain
            STORE f TO AAfinish
        CASE !(cmdopt) = 'S'
            DO STDRPT
            STORE f TO AAfinish
        CASE !(cmdopt) = 'N'
            DO nstddet
            STORE f TO AAfinish
        CASE !(cmdopt) = 'H'
            STORE 1 TO HELPOPT
            DO B:HELP2
            STORE f TO AAfinish
        CASE !(cmdopt) = 'Q'
            STORE t TO AAfinish
    ENDCASE
ENDDO
RELEASE cmdopt, HELPOPT, aafinish
RETURN
```

E. HELP2 ROUTINE

```
* Routine Name: Help2.prg
* Module Name: Maintenance Module
* Version: 3.0.1
* Author: D.P. Haeusler
* Date: 6.0.1.0
* Variables Used: helpopt
* Variables Modified: none
* Variables Created: none
* Variables Released: none
* Files (opened/closed): none
* Temporary Files Created: none
* Using Subroutines: Maintain.prg, Cmddet.prg
* Description: This routine gives a brief description of
* the commands that can be invoked by the user.

ERASE
DO CASE
   CASE HELPOPT = 1
   TEXT
```

    D...DATA ENTRY AND SYSTEM FUNCTIONS: This module
allows the user to enter data on individual Marines into
the data base and to modify data for system functions.
Installation occurs in this module and any manipulation of
the data such as corrections and updates of of the
information.

    S...STANDARD REPORTS: This module produces reports
that are used on a day in and day out basis. The reports
are displayed on the screen and if a paper copy is required
while the data is still on the, press the shift key and the
prtsc key at the same time, this will print everything on
the screen.

    N...NONSTANDARD REPORTS: This module allows the users
to construct thier own queries of the data base. It
prompts you for the infor- mation to make a query. Paper
copies of the reports can obtained by the same method as in
Standard Reports.

```
        ENDTEXT
        @ 23,15 SAY " **** PRESS ANY KEY TO CONTINUE ****"
        SET CONSOLE OFF
        WAIT
        SET CONSOLE ON
   CASE HELPOPT = 2
        TEXT
```

    V...VIEW INDIVIDUAL DATA: This module prompts you for
the name of an individual whose ITR you wish to see. This
module does not allow you to change any fields all you can
do is scan the data.

    U...UPDATE DATA: This module allows you to change or
enter data in any field of any ITR. The ITR must already
exist and is identified by the individuals name. You only
need to enter enough of the name to be able to distinguish
it from another Marines name.

    C...CREATE AN ITR: This module allos the creation of
new ITR's. It will prompt you to enter all the appropriate
data. Enter the data in one field at a time. If no data
is to entered in that field, strike the enter key leaving
the field empty.

    D...DELETE AN ITR: This module allows the Data Base
Administrator to delete records in the data base. Once a

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record has been deleted it is gone forever and can not be
recovered.   Access to this module is restricted.

     S...SYSTEM FUNCTICNS: This module allows the
housekeeping of the system to be accomplished by the Data
Base Administrator.   Access to this module is restricted.
         ENDTEXT
         @ 23,15 SAY " **** PRESS ANY KEY TO CONTINUE ****"
         SET CONSOLE OFF
         WAIT
         SET CONSOLE ON
ENDCASE
RETURN

APPENDIX F

NCNSTANDARD CCMMAND GENEBATOR MOUDLE LISTING

A. NCNSTANDARD BEPOBT BOUTINE

```
* ROUTINE NAME: NOSTDRPT.PRG
* MODULE NAME: NONSTANDARD COMMAND GENERATOR
* VERSICN: 4.0
* AUTHOR: R.E. PRUIETT
* DATE:04FEB84
* VARIABLES USED: MATRI1, DESC1, MATRI2, DESC2, MATRI3,
* DESC3, SLCT1, SLCT2, SLCT3
* VARIABLES MODIFIED: MREPEAT, COUNT, PROCEED
* VARIABLES CREATED: MREPEAT, COUNT, PROCEED
* VARIABLES RELEASED: M??????, REPEAT, COUNT,
* ATRI????, SLCT????, DESC????
* FILES CPENED/CLOSED: A:PERS, E:EST, B:QUAL
* TEMP FILES CREATED: TEMP, SLCTDATA, TEMP2, TEMP3
* USING SUBROUTINES: CCMMAND DETERMINER MODULE
* DESCRIPTICN: THIS MODULE SEARCHES THE APPROPRIATE
* DATABASE FILES IN CRDER TC LCCATE AND DISPLAY ALL RECORDS
* THAT SATISFY A SET CF FROM ONE TO THREE USER SPECIFIED
* ATTRIBUTES.
*
STORE T TO MREPEAT
DO WHILE MREPEAT = T
 STORE F TO MREPEAT
 ERASE
 @ 10,25 SAY "NONSTANDARD CCMMAND GENERATOR"
 @ 20,0  SAY "PRESS 'H' FOR HELP"
 @ 21,0  SAY "         CR "
 ACCEPT "PRESS 'ENTER' TO CCNTINUE" TO PROCEED
 IF !(PRCCEED) = "H"
    DO A:NCSTDHLP
    STCRE T TO MREPEAT
 ENDIF
ENDDO
ERASE
@ 1,25 SAY "NONSTANDARD COMMAND GENERATOR"
@ 3,5  SAY "WHEN PROMPTED ENTER AN ATTRIBUTE AND A";
"DESCRIPTCR FOR EACH"
@ 4,5  SAY "CONDITION STATEMENT DESIRED.          "
@ 6,10 SAY "LOCATE ALL MARINES THAT SATISFY THESE;
CONDITICNS:"
@ 8,10  SAY "  <ATTRIBUTE>                     <DESCRIPTOR>"
@ 9,10  SAY "  _____          IS         _____"
@ 20,0
ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED

STORE T TO MREPEAT
STORE 0 TO COUNT
DO WHILE MREPEAT = T .AND. COUNT <= 3
   STCRE CCUNT + 1 TO CCUNT
   STCRE F TO MREPEAT
   DO SLCTATRI
   ERASE
   DO CASE
    CASE COUNT = 1
       @ 1,0 SAY "<ATTRIBUTE>                    <DESCRIPTICN>"
       @ 2,0 SAY "_____                    _____ "
       @ 4,6 SAY MATRI1
```

```
         @ 4,30 SAY "IS"
         @ 4,48 SAY DESC1
      CASE CCOUNT = 2
         @ 1,0 SAY "<ATTRIBUTE>              <DESCRIPTION>   "
         @ 2,0 SAY "                                         "
         @ 4,6 SAY MATRI1 @ 4,30 SAY "IS"-----------
         @ 4,48 SAY DESC1
         @ 6,30 SAY "AND"
         @ 8,6 SAY MATRI2
         @ 8,30 SAY "IS" @ 8,48 SAY DESC2 CASE COUNT = 3
         @ 1,0 SAY "<ATTRIBUTE>              <DESCRIPTION>   "
         @ 2,0 SAY "                                         "
         @ 4,6 SAY MATRI1-----            -----------
         @ 4,30 SAY "IS"
         @ 4,48 SAY DESC1
         @ 6,30 SAY "AND"
         @ 8,6 SAY MATRI2
         @ 8,30 SAY "IS"
         @ 8,48 SAY DESC2
         @ 10,30 SAY "AND"
         @ 12,6 SAY MATRI3
         @ 12,30 SAY "IS"
         @ 12,48 SAY DESC3
   ENDCASE
   IF COUNT < 3
      @ 20,0 SAY "DO YOU WANT TO INCLUDE ANOTHER CONDITION";
      "STATEMENT?"
      ACCEPT "(Y/N) ===>" TO PROCEED
      IF PROCEED = "Y"
         STORE T TO MREPEAT
      ENDIF
   ENDIF
   IF PROCEED = "N" .OR. COUNT >= 3
      @ 22,0
      ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
   ENDIF
ENDDO

ERASE
IF CCOUNT = 1
   DO CASE
      CASE (SLCT1 >= "A" .AND. SLCT1 <= "I")
         USE A:PERS
         DISPLAY ALL FOR &ATRI1 = "&DESC1" OFF FIELDS;
         NAME,SSN,&ATRI1
         IF EOF
            @ 23,50 SAY "SEARCH COMPLETE"
         ENDIF
      CASE (SLCT1 = "J" .OR. SLCT1 = "K")
         USE E:EST
         COPY TO A:TEMP FIELD SSN,&ATRI1 FOR &ATRI1 =;
         "&DESC1"
         SELECT PRIMARY
         USE A:TEMP
         SELECT SECONDARY
         USE A:PERS
         JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
         NAME,SSN,&ATRI1
         USE SLCTDATA
         DISPLAY ALL
         IF EOF
            @ 23,50 SAY "SEARCH COMPLETE"
         ENDIF
      CASE (SLCT1 >= "L" .AND. SLCT1 <= "N")
         USE E:QUAL
         COPY TO A:TEMP FIELD SSN,&ATRI1 FOR &ATRI1 =;
         "&DESC1"
         SELECT PRIMARY
         USE A:TEMP
```

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```
          SELECT SECONDARY
          USE A:PERS
          JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
          NAME,SSN,&ATRI1
          USE SLCTDATA
          DISPLAY ALL
          IF EOF
             @ 23,50 SAY "SEARCH COMPLETE"
          ENDIF
   ENDCASE
   ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
ENDIF

IF CCONT = 2
   DO CASE
      CASE (SLCT1 >= "A" .AND. SLCT1 <= "I") .AND.;
           (SLCT2 >= "A" .AND. SLCT2 <= "I")
           USE A:PERS
           COPY TO A:TEMP FIELD NAME,SSN,&ATRI1,&ATRI2 FOR;
           &ATRI1="&DESC1"
           USE A:TEMP
           DISPLAY FOR &ATRI2="&DESC2" OFF FIELDS;
           NAME,SSN,&ATRI1,&ATRI2
           IF EOF
              @ 23,50 SAY "SEARCH COMPLETE"
           ENDIF
      CASE (SLCT1 >= "A" .AND. SLCT1 <= "I") .AND.;
           (SLCT2 = "J" .OR. SLCT2 = "K")
           USE B:EST
           COPY TO A:TEMP FIELD SSN,&ATRI2 FOR &ATRI2 =;
           "&DESC2"
           SELECT PRIMARY
           USE A:TEMP
           SELECT SECONDARY
           USE A:PERS
           JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
           NAME,SSN,&ATRI1,&ATRI2
           USE SLCTDATA
           DISPLAY FOR &ATRI1 = "&DESC1" OFF FIELDS;
           NAME,SSN,&ATRI1,&ATRI2
            IF EOF
               @ 23,50 SAY "SEARCH COMPLETE"
            ENDIF
      CASE (SLCT1 >= "A" .AND. SLCT1 <= "I") .AND.;
           (SLCT2 >= "I" .AND. SLCT2 <= "N")
           USE B:QUAL
           COPY TO A:TEMP FIELD SSN,&ATRI2 FOR &ATRI2 =;
           "&DESC2"
           SELECT PRIMARY
           USE A:TEMP
           SELECT SECONDARY
           USE A:PERS
           JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
           NAME,SSN,&ATRI1,&ATRI2
           USE SLCTDATA
           DISPLAY FOR &ATRI1 = "&DESC1" OFF FIELDS;
           NAME,SSN,&ATRI1,&ATRI2
           IF EOF
              @ 23,50 SAY "SEARCH COMPLETE"
           ENDIF
      CASE (SLCT1 = "J" .OR. SLCT1 = "K") .AND.;
           (SLCT2 >= "A" .AND. SLCT2 <= "I")
           USE A:PERS
           COPY TO A:TEMP FIELD NAME,SSN,&ATRI2 FOR &ATRI2 =;
           "&DESC2"
           SELECT PRIMARY
           USE A:TEMP
           SELECT SECONDARY
           USE B:EST
```

```
            JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
            NAME,SSN,&ATRI1,&ATRI2
            USE SLCTDATA
            DISPLAY FOR &ATRI1 = "&DESC1" OFF FIELDS;
            NAME,SSN,&ATRI1,&ATRI2
            IF EOF
               @ 23,50 SAY "SEARCH COMPLETE"
            ENDIF
      CASE (SLCT1 = "J" .OR. SLCT1 = "K")  .AND.;
            (SLCT2 = "J" .OR. SLCT2 = "K")
            USE B:EST
            COPY TO A:TEMP FIELD SSN,&ATRI1,&ATRI2 FOR &ATRI2;
            = "&DESC2" .AND.  &ATRI1 = "&DESC1"
            SELECT PRIMARY
            USE A:TEMP
            SELECT SECONDARY
            USE A:PERS
            JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
            NAME,SSN,&ATRI1,&ATRI2
            USE SLCTDATA
            DISPLAY ALL
            IF EOF
               @ 23,50 SAY "SEARCH COMPLETE"
            ENDIF
      CASE (SLCT1 = "J" .OR. SLCT1 = "K")  .AND.;
            (SLCT2 >= "I" .AND. SLCT2 <= "N")
            USE B:QUAL
            COPY TO A:TEMP FIELD SSN,&ATRI2 FOR &ATRI2 =;
            "&DESC2"
            USE B:EST
            COPY TO A:TEMP2 FIELD SSN,&ATRI1 FOR &ATRI1 =;
            "DESC1"
            SELECT PRIMARY
            USE A:TEMP
            SELECT SECONDARY
            USE A:TEMP2
            JOIN TO A:TEMP3 FOR P.SSN=S.SSN FIELDS;
            SSN,&ATRI1,&ATRI2
            SELECT PRIMARY
            USE A:TEMP3
            SELECT SECONDARY
            USE A:PERS
            JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
            NAME,SSN,&ATRI1,&ATRI2
            USE SLCTDATA
            DISPLAY ALL
            IF EOF
               @ 23,50 SAY "SEARCH COMPLETE"
            ENDIF
      CASE (SLCT1 >= "L" .AND. SLCT1 <= "N")  .AND.;
            (SLCT2 >= "A" .AND. SLCT2 <= "I")
            USE A:PERS
            COPY TO A:TEMP FIELD NAME,SSN,&ATRI2 FOR &ATRI2 =;
            "&DESC2"
            SELECT PRIMARY
            USE A:TEMP
            SELECT SECONDARY
            USE B:QUAL
            JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
            NAME,SSN,&ATRI1,&ATRI2
            USE SLCTDATA
            DISPLAY FOR &ATRI1 = "&DESC1" OFF FIELDS;
            NAME,SSN,&ATRI1,&ATRI2
            IF EOF
               @ 23,50 SAY "SEARCH COMPLETE"
            ENDIF
      CASE (SLCT1 >= "I" .AND. SLCT1 <= "N")  .AND.;
            (SLCT2 = "J" .OR. SLCT2 = "K")
            USE B:EST
```

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```
            COPY TO A:TEMP FIELD SSN,&ATRI2 FOR &ATRI2 =;
            "&DESC2"
            USE B:QUAL
            COPY TO A:TEMP2 FIELD SSN,&ATRI1 FOR &ATRI1 =;
            "DESC1"
            SELECT PRIMARY
            USE A:TEMP
            SELECT SECONDARY
            USE A:TEMP2
            JOIN TO A:TEMP3 FOR P.SSN=S.SSN FIELDS;
            SSN,&ATRI1,&ATRI2
            SELECT PRIMARY
            USE A:TEMP3
            SELECT SECONDARY
            USE A:PERS
            JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
            NAME,SSN,&ATRI1,&ATRI2
            USE SLCTDATA
            DISPLAY ALL
            IF EOF
               @ 23,50 SAY "SEARCH COMPLETE"
            ENDIF
      CASE (SLCT1 >= "I" .AND. SICT1 <= "N") .AND.;
           (SLCT2 >= "L" .AND. SLCT2 <= "N")
           USE B:QUAL
           COPY TO A:TEMP FIELD SSN,&ATRI1,&ATRI2 FOR &ATRI1;
           = "&DESC1" .AND. &ATRI2 = "&DESC2"
           SELECT PRIMARY
           USE A:TEMP
           SELECT SECONDARY
           USE A:PERS
           JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
           NAME,SSN,&ATRI1,&ATRI2
           USE SLCTDATA
           DISPLAY ALL
           IF EOF
              @ 23,50 SAY "SEARCH COMPLETE"
           ENDIF
   ENDCASE
   ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
ENDIF

IF CCUNT = 3
   DO CASE
      CASE (SLCT1 >= "A" .AND. SLCT1 <= "I")
         DO CASE
            CASE (SLCT2 >= "A" .AND. SLCT2 <= "I")
               DO CASE
                  CASE (SLCT3 >= "A" .AND. SLCT3 <= "I")
                     USE A:PERS
                     COPY TO A:TEMP FIELD NAME, SSN, &ATRI1,;
                     &ATRI2, &ATRI3 FOR &ATRI1="&DESC1"
                     USE A:TEMP
                     COPY TO A:TEMP2 FIELD NAME, SSN, &ATRI1,;
                     &ATRI2, &ATRI3 FOR &ATRI2="&DESC2"
                     USE A:TEMP2
                     DISPLAY FOR &ATRI3="&DESC3" OFF FIELDS;
                     NAME, SSN, &ATRI1, &ATRI2, &ATRI3
                     IF ECF
                        @ 23,50 SAY "SEARCH COMPLETE"
                     ENDIF
                  CASE (SLCT3 = "J" .OR. SLCT3 = "K")
                     USE E:EST
                     COPY TO A:TEMP FIELD SSN,&ATRI3 FOR &ATRI3;
                     = "&DESC3"
                     SELECT PRIMARY
                     USE A:TEMP
                     SELECT SECONDARY
                     USE A:PERS
```

```
                JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                NAME,SSN,&ATRI1, &ATRI2,&ATRI3
                USE SICTDATA
                DISPLAY FOR &ATRI1 = "&DESC1" .AND. &ATRI2;
                = "&DESC2" OFF FIELDS NAME, SSN, &ATRI1,;
                &ATRI2, &ATRI3
                IF EOF
                   @ 23,50 SAY "SEARCH COMPLETE"
                ENDIF
           CASE (SLCT3 >= "I" .AND. SLCT3 <= "N")
                USE E:QUAL
                COPY TO A:TEMP FIELD SSN,&ATRI3 FOR &ATRI3;
                = "&DESC3"
                SELECT PRIMARY
                USE A:TEMP
                SELECT SECONDARY
                USE A:PERS
                JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                NAME, SSN, &ATRI1, &ATRI2, &ATRI3
                USE SICTDATA
                DISPLAY FOR &ATRI1 = "&DESC1" .AND. &ATRI2;
                = "&DESC2" OFF FIELDS NAME, SSN, &ATRI1,;
                &ATRI2, &ATRI3
                IF EOF
                   @ 23,50 SAY "SEARCH COMPLETE"
                ENDIF
        ENDCASE
     CASE (SLCT2 >= "L" .AND. SLCT2 <= "N")
        DO CASE
           CASE (SICT3 >= "A" .AND. SLCT3 <= "I")
                USE E:QUAL
                COPY TO A:TEMP FIELD SSN,&ATRI2 FOR &ATRI2;
                = "&DESC2"
                SELECT PRIMARY
                USE A:TEMP
                SELECT SECONDARY
                USE A:PERS
                JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                NAME, SSN, &ATRI1, &ATRI2, &ATRI3
                USE SICTDATA
                DISPLAY FOR &ATRI1 = "&DESC1" .AND. &ATRI3;
                = "&DESC3" OFF FIELDS NAME, SSN, &ATRI1,;
                &ATRI2, &ATRI3
                IF EOF
                   @ 23,50 SAY "SEARCH COMPLETE"
                ENDIF
           CASE (SLCT3 >= "I" .AND. SLCT3 <= "N")
                USE A:PERS
                COPY TO A:TEMP FIELD NAME,SSN,&ATRI1 FOR;
                &ATRI1 = "&DESC1"
                SELECT PRIMARY
                USE A:TEMP
                SELECT SECONDARY
                USE E:QUAL
                JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                NAME, SSN, &ATRI1, &ATRI2, &ATRI3
                USE SICTDATA
                DISPLAY FOR &ATRI2 = "&DESC2" .AND. &ATRI3;
                = "&DESC3" OFF FIELDS NAME, SSN, &ATRI1,;
                &ATRI2, &ATRI3
                IF EOF
                   @ 23,50 SAY "SEARCH COMPLETE"
                ENDIF
           CASE (SLCT3 = "J" .OR. SLCT3 = "K")
                USE A:PERS
                COPY TO A:TEMP FIELD NAME,SSN,&ATRI1 FOR;
                &ATRI1 = "&DESC1"
                SELECT PRIMARY
                USE A:TEMP
```

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            SELECT SECONDARY
            USE E:QUAL
            JOIN TO A:TEMP2 FOR P.SSN=S.SSN FIELDS;
            NAME, SSN, &ATRI1, &ATRI2
            SELECT PRIMARY
            USE A:TEMP2
            SELECT SECONDARY
            USE E:EST
            JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
            NAME, SSN, &ATRI1, &ATRI2,&ATRI3
            USE SICTDATA
            DISPLAY FOR &ATRI2 = "&DESC2" .AND. &ATRI3;
            = "&DESC3" OFF FIELDS NAME, SSN, &ATRI1,;
            &ATRI2, &ATRI3
            IF ECF
              @ 23,50 SAY "SEARCH COMPLETE"
            ENDIF
        ENDCASE
    CASE (SLCT2 = "J" .OR. SLCT2 = "K")
      DO CASE
        CASE (SLCT3 >= "A" .AND. SLCT3 <= "I")
            USE E:EST
            COPY TO A:TEMP FIELD SSN,&ATRI2 FOR &ATRI2;
            = "&DESC2"
            SELECT PRIMARY
            USE A:TEMP
            SELECT SECONDARY
            USE A:PERS
            JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
            NAME, SSN, &ATRI1, &ATRI2, &ATRI3
            USE SICTDATA
            DISPLAY FOR &ATRI1 = "&DESC1" .AND. &ATRI3;
            = "&DESC3" OFF FIELDS NAME, SSN, &ATRI1,;
            &ATRI2, &ATRI3
            IF ECF
              @ 23,50 SAY "SEARCH COMPLETE"
            ENDIF
        CASE (SLCT3 >= "I" .AND. SLCT3 <= "N")
            USE A:PERS
            COPY TO A:TEMP FIELD NAME,SSN,&ATRI1 FOR;
            &ATRI1 = "&DESC1"
            USE E:EST
            COPY TO A:TEMP2 FIELD SSN,&ATRI2 FOR;
            &ATRI2 = "&DESC2"
            SELECT PRIMARY
            USE A:TEMP
            SELECT SECONDARY
            USE A:TEMP2
            JOIN TO A:TEMP3 FOR P.SSN=S.SSN FIELDS;
            NAME, SSN, &ATRI1, &ATRI2,&ATRI3
            SELECT PRIMARY
            USE A:TEMP3
            SELECT SECONDARY
            USE E:QUAL
            JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
            NAME, SSN, &ATRI1, &ATRI2, &ATRI3
            USE SICTDATA
            DISPLAY FOR &ATRI3 = "&DESC3" OFF FIELDS;
            NAME, SSN, &ATRI1, &ATRI2, &ATRI3
            IF ECF
              @ 23,50 SAY "SEARCH COMPLETE"
            ENDIF
        CASE (SLCT3 = "J" .OR. SLCT3 = "K")
            USE A:PERS
            COPY TO A:TEMP FIELD NAME,SSN,&ATRI1 FOR;
            &ATRI1 = "&DESC1"
            SELECT PRIMARY
            USE A:TEMP
            SELECT SECONDARY
```

```
                    USE E:EST
                    JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                    NAME, SSN, &ATRI1, &ATRI2, &ATRI3
                    USE SICTDATA
                    DISPIAY FOR &ATRI2 = "&DESC2" .AND. &ATRI3;
                    = "&DESC3" CFF FIELDS NAME, SSN, &ATRI1,;
                    &ATRI2, &ATRI3
                    IF ECF
                       @ 23,50 SAY "SEARCH COMPLETE"
                    ENDIF
              ENDCASE
          ENDCASE
**BEGIN CUAL / * / *
     CASE (SLCT1 >= "I" .AND. SLCT1 <= "N")
     **EEGIN QUAL / PERS / *
          DO CASE
             CASE (SLCT2 >= "A" .AND. SLCT2 <= "I")
                DO CASE
                   CASE (SICT3 >= "A" .AND. SLCT3 <= "I")
                   USE A:PERS
                   COPY TO A:TEMP FIELD NAME, SSN, &ATRI2,;
                   &ATRI3 FOR &ATRI2="&DESC2" .AND.;
                   &ATRI3="&DESC3"
                   SELECT PRIMARY
                   USE A:TEMP
                   SELECT SECONDAEY
                   USE E:QUAL
                   JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                   NAME, SSN, &ATRI1, &ATRI2, &ATRI3
                   USE SICTDATA
                   DISPLAY FOR &ATRI1="&DESC1" OFF FIELDS;
                   NAME, SSN, &ATRI1, &ATRI2, &ATRI3
                   IF ECF
                      @ 23,50 SAY "SEARCH COMPLETE"
                   ENDIF
                   CASE (SICT3 = "J" .OR. SLCT3 = "K")
                   USE E:EST
                   COPY TO A:TEMP FIELD SSN,&ATRI3 FOR &ATRI3;
                   = "&DESC3"
                   USE E:QUAL
                   COPY TO A:TEMP2 FIELD SSN,&ATRI1 FOR;
                   &ATRI1="&DESC1"
                   SELECT PRIMARY
                   USE A:TEMP
                   SELECT SECONDAEY
                   USE A:TEMP2
                   JOIN TO A:TEMP3 FOR P.SSN=S.SSN FIELDS;
                   SSN, &ATRI1, &ATRI3
                   SELECT PRIMARY
                   USE A:TEMP3
                   SELECT SECONDAEY
                   USE A:PERS
                   JOIN TO SLCTDATA FOR P.SSN=S.SSN FIEIDS;
                   NAME, SSN, &ATRI1, &ATRI2, &ATRI3
                   USE SICTDATA
                   DISPLAY FOR &ATRI2 = "&DESC2";
                   OFF FIELDS NAME,SSN,&ATRI1,&ATRI2,&ATRI3
                   IF ECF
                      @ 23,50 SAY "SEARCH COMPLETE"
                   ENDIF
                   CASE (SLCT3 >= "I" .AND. SLCT3 <= "N")
                   USE E:QUAL
                   COPY TO A:TEMP FIELD SSN,&ATRI1,&ATRI3;
                   FOR &ATRI3 = "&DESC3" .AND. &ATRI1 =;
                   "&DESC1"
                   SELECT PRIMARY
                   USE A:TEMP
                   SELECT SECONDAEY
                   USE A:PERS
```

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```
                    JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                    NAME, SSN, &ATRI1, &ATRI2, &ATRI3
                    USE SICTDATA
                    DISPLAY FOR &ATRI2 = "&DESC2";
                    OFF FIELDS NAME,SSN,&ATRI1,&ATRI2,&ATRI3
                    IF EOF
                       @ 23,50 SAY "SEARCH COMPLETE"
                    ENDIF
              ENDCASE
    CASE (SLCT2 >= "L" .AND. SLCT2 <= "N")
           DO CASE
              CASE (SICT3 >= "A" .AND. SLCT3 <= "I")
                 USE E:QUAL
                 COPY TO A:TEMP FIELD SSN,&ATRI1,&ATRI2;
                 FOR &ATRI1 = "&DESC1" .AND. &ATRI2 =;
                 "&DESC2"
                 SELECT PRIMARY
                 USE A:TEMP
                 SELECT SECONDARY
                 USE A:PERS
                 JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                 NAME, SSN, &ATRI1, &ATRI2, &ATRI3
                 USE SICTDATA
                 DISPLAY FOR &ATRI3 = "&DESC3";
                 CFF FIELDS NAME,SSN,&ATRI1,&ATRI2,&ATRI3
                 IF ECF
                    @ 23,50 SAY "SEARCH COMPLETE"
                 ENDIF
              CASE (SICT3 >= "I" .AND. SLCT3 <= "N")
                 USE E:QUAL
                 COPY TO A:TEMP FIELD SSN, &ATRI1, &ATRI2,;
                 &ATRI3 FOR &ATRI1 = "&DESC1" .AND. &ATRI2;
                 = "&DESC2" .AND.  &ATRI3 = "&DESC3"
                 SELECT PRIMARY
                 USE A:TEMP
                 SELECT SECONDARY
                 USE A:PERS
                 JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                 NAME, SSN, &ATRI1, &ATRI2, &ATRI3
                 USE SICTDATA
                 DISPLAY ALL OFF FIELDS NAME,SSN,;
                 &ATRI1,&ATRI2,&ATRI3
                 IF ECF
                    @ 23,50 SAY "SEARCH COMPLETE"
                 ENDIF
              CASE (SLCT3 = "J" .OR. SLCT3 = "K")
                 USE E:QUAL
                 COPY TO A:TEMP FIELD SSN,&ATRI1,&ATRI2;
                 FOR &ATRI1 = "&DESC1" .AND. &ATRI2 =;
                 "&DESC2"
                 USE E:EST
                 COPY TO A:TEMP2 FIELD SSN,&ATRI3 FOR;
                 &ATRI3 = "&DESC3"
                 SELECT PRIMARY
                 USE A:TEMP
                 SELECT SECONDARY
                 USE A:TEMP2
                 JOIN TO A:TEMP3 FOR P.SSN=S.SSN FIELDS;
                 SSN, &ATRI1, &ATRI2, &ATRI3
                 SELECT PRIMARY
                 USE A:TEMP3
                 SELECT SECONDARY
                 USE A:PERS
                 DISPLAY FOR P.SSN=S.SSN OFF FIELDS NAME,;
                 SSN, &ATRI1, &ATRI2, &ATRI3.
                 IF ECF
                    @ 23,50 SAY "SEARCH COMPLETE"
                 ENDIF
              ENDCASE
```

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```
CASE (SLCT2 = "J" .OR. SLCT2 = "K")
   DO CASE
      CASE (SLCT3 >= "A" .AND. SLCT3 <= "I")
         USE E:EST
         COPY TO A:TEMP FIELD SSN,&ATRI2 FOR &ATRI2;
         = "&DESC2"
         USE E:QUAL
         COPY TO A:TEMP2 FIELD SSN,&ATRI1 FOR;
         &ATRI1 = "&DESC1"
         SELECT PRIMARY
         USE A:TEMP
         SELECT SECONDARY
         USE A:TEMP2
         JOIN TO A:TEMP3 FOR P.SSN=S.SSN FIELDS;
         SSN,&ATRI1,&ATRI2
         SELECT PRIMARY
         USE A:TEMP3
         SELECT SECONDARY
         USE A:PERS
         DISPLAY FOR S.&ATRI3="&DESC3" .AND.;
         P.SSN=S.SSN OFF FIELDS NAME, SSN, &ATRI1,;
         &ATRI2, &ATRI3
         IF EOF
            @ 23,50 SAY "SEARCH COMPLETE"
         ENDIF
      CASE (SLCT3 >= "I" .AND. SLCT3 <= "N")
         USE E:QUAL
         COPY TO A:TEMP FIELD SSN,&ATRI1,&ATRI3;
         FOR &ATRI1 = "&DESC1" .AND. &ATRI3 =;
         "&DESC3"
         USE E:EST
         COPY TO A:TEMP2 FIELD SSN,&ATRI2 FOR;
         &ATRI2 = "&DESC2"
         SELECT PRIMARY
         USE A:TEMP
         SELECT SECONDARY
         USE A:TEMP2
         JOIN TO A:TEMP3 FOR P.SSN=S.SSN FIELDS;
         SSN, &ATRI1, &ATRI2, &ATRI3
         SELECT PRIMARY
         USE A:TEMP3
         SELECT SECONDARY
         USE A:PERS
         DISPLAY FOR P.SSN=S.SSN OFF FIELDS NAME,;
         SSN, &ATRI1, &ATRI2, &ATRI3
         IF EOF
            @ 23,50 SAY "SEARCH COMPLETE"
         ENDIF
      CASE (SLCT3 = "J" .OR. SLCT3 = "K")
         USE E:EST
         COPY TO A:TEMP FIELD SSN,&ATRI2,&ATRI3;
         FOR &ATRI2 ="&DESC2" .AND. &ATRI3 ="&DESC3"
         USE E:QUAL
         COPY TO A:TEMP2 FIELD SSN,&ATRI1 FOR;
         &ATRI1="&DESC1"
         SELECT PRIMARY
         USE A:TEMP
         SELECT SECONDARY
         USE A:TEMP2
         JOIN TO A:TEMP3 FOR P.SSN=S.SSN FIELDS;
         SSN, &ATRI1, &ATRI2, &ATRI3
         SELECT PRIMARY
         USE A:TEMP3
         SELECT SECONDARY
         USE A:PERS
         DISPLAY FOR P.SSN=S.SSN;
         OFF FIELDS NAME,SSN,&ATRI1,&ATRI2,&ATRI3
         IF EOF
            @ 23,50 SAY "SEARCH COMPLETE"
```

```
                    ENDIF
              ENDCASE
            ENDCASE
** BEGIN EST / * / *
       CASE (SLCT1 = "J" .OR. SLCT1 = "K")
         **BEGIN EST / PERS / *
             DO CASE
              CASE (SLCT2 >= "A" .AND. SLCT2 <= "I")
                 DO CASE
                  CASE (SLCT3 >= "A" .AND. SLCT3 <= "I")
                    USE A:PERS
                    COPY TO A:TEMP FIELD NAME, SSN, &ATRI2,;
                    &ATRI3 FOR &ATRI2 = "&DESC2" .AND. &ATRI3;
                    = "&DESC3"
                    USE E:EST
                    COPY TO A:TEMP2 FIELD SSN,&ATRI1 FOR;
                    &ATRI1="&DESC1"
                    SELECT PRIMARY
                    USE A:TEMP
                    SELECT SECONDARY
                    USE A:TEMP2
                    DISPLAY FOR P.SSN=S.SSN OFF FIELDS NAME,;
                    SSN, &ATRI1, &ATRI2, &ATRI3
                    IF ECF
                       @ 23,50 SAY "SEARCH COMPLETE"
                    ENDIF
                  CASE (SLCT3 = "J" .OR. SLCT3 = "K")
                    USE E:EST
                    COPY TO A:TEMP FIELD SSN,&ATRI1,&ATRI3;
                    FOR &ATRI1="&DESC1" .AND. &ATRI3="&DESC3"
                    SELECT PRIMARY
                    USE A:TEMP
                    SELECT SECONDARY
                    USE A:PERS
                    DISPLAY FOR P.SSN=S.SSN .AND. S.&ATRI2 =;
                    "&DESC2" OFF FIELDS NAME, SSN, &ATRI1,;
                    &ATRI2, &ATRI3
                    IF ECF
                       @ 23,50 SAY "SEARCH COMPLETE"
                    ENDIF
                  CASE (SLCT3 >= "L" .AND. SLCT3 <= "N")
                    USE E:QUAL
                    COPY TO A:TEMP FIELD SSN,&ATRI3 FOR &ATRI3;
                    = "&DESC3"
                    USE E:EST
                    COPY TO A:TEMP2 FIELD SSN,&ATRI1 FOR;
                    &ATRI1="&DESC1"
                    SELECT PRIMARY
                    USE A:TEMP
                    SELECT SECONDARY
                    USE A:TEMP2
                    JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                    SSN, &ATRI1, &ATRI3
                    SELECT PRIMARY
                    USE SLCTDATA
                    SELECT SECONDARY
                    USE A:PERS
                    DISPLAY FOR P.SSN=S.SSN .AND. &ATRI2 =;
                    "&DESC2" OFF FIELDS NAME, SSN, &ATRI1,;
                    &ATRI2, &ATRI3
                    IF ECF
                       @ 23,50 SAY "SEARCH COMPLETE"
                    ENDIF
                 ENDCASE
              CASE (SLCT2 >= "L" .AND. SLCT2 <= "N")
                 DO CASE
                  CASE (SLCT3 >= "A" .AND. SLCT3 <= "I")
                    USE E:QUAL
                    COPY TO A:TEMP FIELD SSN,&ATRI2 FOR &ATRI2;
```

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```
                = "&DESC2"
                USE E:EST
                COPY TO A:TEMP2 FIELD SSN,&ATRI1 FOR;
                &ATRI1="&DESC1"
                SELECT PRIMARY
                USE A:TEMP
                SELECT SECONDARY
                USE A:TEMP2
                JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                SSN, &ATRI1, &ATRI2
                SELECT PRIMARY
                USE SLCTDATA
                SELECT SECONDARY
                USE A:PERS
                DISPLAY FOR &ATRI3 = "&DESC3" .AND.;
                P.SSN=S.SSN OFF FIELDS NAME, SSN, &ATRI1,;
                &ATRI2, &ATRI3
                IF EOF
                   @ 23,50 SAY "SEARCH COMPLETE"
                ENDIF
           CASE (SLCT3 >= "I" .AND. SLCT3 <= "N")
                USE E:QUAL
                COPY TO A:TEMP FIELD SSN,&ATRI2,&ATRI3;
                FOR &ATRI2="&DESC2" .AND. &ATRI3="&DESC3"
                USE E:EST
                COPY TO A:TEMP2 FIELD SSN,&ATRI1 FOR;
                &ATRI1="&DESC1"
                SELECT PRIMARY
                USE A:TEMP
                SELECT SECONDARY
                USE A:TEMP2
                JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                SSN, &ATRI1, &ATRI2, &ATRI3
                SELECT PRIMARY
                USE SLCTDATA
                SELECT SECONDARY
                USE A:PERS
                DISPLAY FOR P.SSN=S.SSN OFF FIELDS NAME,;
                SSN, &ATRI1, &ATRI2, &ATRI3
                IF EOF
                   @ 23,50 SAY "SEARCH COMPLETE"
                ENDIF
           CASE (SLCT3 = "J" .OR. SLCT3 = "K")
                USE E:EST
                COPY TO A:TEMP FIELD SSN,&ATRI1,&ATRI3;
                FOR &ATRI1="&DESC1" .AND. &ATRI3="&DESC3"
                USE E:QUAL
                COPY TO A:TEMP2 FIELD SSN,&ATRI2 FOR;
                &ATRI2="&DESC2"
                SELECT PRIMARY
                USE A:TEMP
                SELECT SECONDARY
                USE A:TEMP2
                JOIN TO A:TEMP3 FOR P.SSN=S.SSN FIELDS;
                SSN, &ATRI1, &ATRI2, &ATRI3
                SELECT PRIMARY
                USE A:TEMP3
                SELECT SECONDARY
                USE A:PERS
                DISPLAY FOR P.SSN=S.SSN OFF FIELDS NAME,;
                SSN, &ATRI1, &ATRI2, &ATRI3
                IF EOF
                   @ 23,50 SAY "SEARCH COMPLETE"
                ENDIF
        ENDCASE
   CASE (SLCT2 = "J" .OR. SLCT2 = "K")
      DO CASE
         CASE (SLCT3 >= "A" .AND. SLCT3 <= "I")
            USE E:EST
```

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```
                     COPY TO A:TEMP FIELD SSN,&ATRI1,&ATRI2 ;
                     FOR &ATRI1="&DESC1" .AND. &ATRI2="&DESC2"
                     SELECT PRIMARY
                     USE A:TEMP
                     SELECT SECONDARY
                     USE A:PERS
                     DISPLAY FOR P.SSN=S.SSN .AND. &ATRI3 =;
                     "&DESC3" OFF FIELDS NAME, SSN, &ATRI1,;
                     &ATRI2, &ATRI3
                     IF ECF
                        @ 23,50 SAY "SEARCH COMPLETE"
                     ENDIF
                  CASE (SICT3 >= "L" .AND. SLCT3 <= "N")
                     USE E:EST
                     COPY TO A:TEMP FIELD SSN,&ATRI1,&ATRI2;
                     FOR &ATRI1="&DESC1" .AND. &ATRI2="&DESC2"
                     USE E:QUAL
                     COPY TO A:TEMP2 FIELD SSN,&ATRI3 FOR;
                     &ATRI3 = "&DESC3"
                     SELECT PRIMARY
                     USE A:TEMP
                     SELECT SECONDARY
                     USE A:TEMP2
                     JOIN TO SLCTDATA FOR P.SSN=S.SSN FIELDS;
                     SSN, &ATRI1, &ATRI2, &ATRI3
                     SELECT PRIMARY
                     USE SICTDATA
                     SELECT SECONDARY
                     USE A:PERS
                     DISPLAY FOR P.SSN=S.SSN OFF FIELDS NAME,;
                     SSN, &ATRI1, &ATRI2, &ATRI3
                     IF ECF
                        @ 23,50 SAY "SEARCH COMPLETE"
                     ENDIF
                  CASE (SICT3 = "J" .OR. SLCT3 = "K")
                     USE A:EST
                     COPY TO A:TEMP FIELD SSN, &ATRI1, &ATRI2,;
                     &ATRI3 FOR &ATRI1 = "&DESC1" .AND. &ATRI2;
                     = "&DESC2" .AND. &ATRI3 = "&DESC3"
                     SELECT PRIMARY
                     USE A:TEMP
                     SELECT SECONDARY
                     USE A:PERS
                     DISPLAY FOR P.SSN=S.SSN OFF FIELDS NAME,;
                     SSN, &ATRI1, &ATRI2, &ATRI3
                     IF ECF
                        @ 23,50 SAY "SEARCH COMPLETE"
                     ENDIF
                  ENDCASE
               ENDCASE
         ENDCASE
      ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
ENDIF
USE
RELEASE ALL LIKE M???????
RELEASE REPEAT,COUNT,
RELEASE ALL LIKE ATRI????
RELEASE ALL LIKE SLCT????
RELEASE ALL LIKE DESC????
SET CONSOLE OFF
DELETE FILE A:TEMP
DELETE FILE A:TEMP2
DELETE FILE A:TEMP3
SET CONSOLE ON
RETURN
```

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E.   NCNSTANDARD HELP ROUTINE


```
* ROUTINE NAME: NOSTDHLP.PRG
* MODULE NAME: NCNSTANDARD REPORT GENERATOR
* VERSION: 4.1.0
* AUTHCR: R.E. PRUIETT
* DATE: 10FEB84
* VARIABLES USED: NONE
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: PROCEED
* VARIABLES RELEASED:NONE
* FILES CPENED/CLOSED:NONE
* TEMP FILES CREATED:NONE
* USING SUBROUTINES:NCSTDRPT.PRG (4.0)
* DESCRIPTICN: THIS ROUTINE SUPPLIES RESPONSE TO THE USER'S
* REQUEST FOR "HELP" WHILE IN THE NONSTANDARD REPORT MENU.
*
ERASE
@ 0,25 SAY "NONSTANDARD COMMAND GENERATOR"
@ 2,0  SAY "LOCATE ALL MARINES THAT SATISFY THE FOLLCWING;
CONDITICN:"
@ 4,C  SAY "      <ATTRIBUTE>                    <DESCRIPTOR>"
@ 4,0  SAY "      -----------                    ------------"
@ 5,0  SAY "                                                 "
@ 6,0  SAY "                                                 "
@ 7,0  SAY "      RANK              IS                E5    "
@ 9,0  SAY "                                                 "
@ 10,C SAY "-------------------------------------------------"
@ 11,0 SAY "      UP TC THREE CONDITION STATEMENTS MAY BE;
JOINED "
@ 12,C SAY "                   FOR EXAMPLE                   "
@ 13,0 SAY "LOCATE ALL MARINES THAT SATISFY THE FOLLCWING;
CONDITICNS "
@ 14,0  SAY "      <ATTRIBUTE>                    <DESCRIPTOR>"
@ 15,0  SAY "                                                 "
@ 16,C SAY "      RANK              IS                E5    "
@ 17,0 SAY "                        AND                      "
@ 18,C SAY "      CCMPANY           IS                A CO  "
@ 19,0 SAY "                        AND                      "
@ 20,0 SAY "      PRIMARY MOS       IS               0331  "
@ 21,0 SAY "JOINING THESE THREE CONDITION STATEMENTS GIVE;
YOU THE NAME "
@ 22,0 SAY "AND SSN CF ALL E5'S IN A CO. THAT HAVE A 0331;
PRIMARY MOS  "
@ 22,0
ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
RETURN
```

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C. SELECT ATTRIBUTE ROUTINE

```
* ROUTINE NAME: SLCTATRI.PRG
* MODULE NAME: NONSTANDARD REPORT GENERATOR
* VERSION: 4.2.0
* AUTHOR: R.E. PRUIETT
* DATE: 12FEB84
* VARIABLES USED: COUNT, SLCT1, SLCT2, SLCT3
* VARIABLES MODIFIED:NONE
* VARIABLES CREATED: REPEAT, MATRIBUT, MATRI1, ATRI1,
* MATRI2, ATRI2, MATRI3, ATRI3
* VARIABLES RELEASED: NONE
* FILES OPENED/CLOSED:NONE
* TEMP FILES CREATED:NONE
* USING SUBROUTINES:NCSTDRPT.PRG (4.0)
* DESCRIPTION: THIS ROUTINE PROMPTS THE USER TO SELECT
* ATTRIBUTES.  AFTER THE FIRST AND SECOND SELECTION THE
* USER IS ASKED IF HE WANTS TO SELECT ANOTHER ATTRIBUTE.
* IF THE RESPONSE IS YES, THE SELECTION PROCEDURE IS
* REPEATED.  THIS PROCESS IS CONTINUED UNTIL THE USER
* ANSWERS NO OR THREE ATTRIBUTES HAVE BEEN SELECTED.  THE
* ROUTINE WILL AUTOMATICALLY SORT AND LOCATE THE
* APPROPRIATE DATABASE FILES AND DISPLAY THE NAME, SSN AND
* ATTRIBUTE INFORMATION FOR EACH RECORD THAT SATISFIES THE
* USER SPECIFIED CRITERIA.
*
STORE T TO REPEAT
DO WHILE REPEAT = T
STORE F TO REPEAT
ERASE
IF COUNT = 2 .OR. COUNT = 3
DO CASE
   CASE SLCT1 = "A"
     @ 1,1 SAY "*"
   CASE SLCT1 = "B"
     @ 2,1 SAY "*"
   CASE SLCT1 = "C"
     @ 3,1 SAY "*"
   CASE SLCT1 = "D"
     @ 4,1 SAY "*"
   CASE SLCT1 = "E"
     @ 5,1 SAY "*"
   CASE SLCT1 = "F"
     @ 6,1 SAY "*"
   CASE SLCT1 = "G"
     @ 7,1 SAY "*"
   CASE SLCT1 = "H"
     @ 8,1 SAY "*"
   CASE SLCT1 = "I"
     @ 9,1 SAY "*"
   CASE SLCT1 = "J"
     @ 10,1 SAY "*"
   CASE SLCT1 = "K"
     @ 11,1 SAY "*"
   CASE SLCT1 = "L"
     @ 12,1 SAY "*"
   CASE SLCT1 = "M"
     @ 13,1 SAY "*"
   CASE SLCT1 = "N"
     @ 14,1 SAY "*"
ENDCASE
ENDIF
IF COUNT = 3
DO CASE
   CASE SLCT2 = "A"
     @ 1,1 SAY "*"
   CASE SLCT2 = "B"
     @ 2,1 SAY "*"
```

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```
           CASE SICT2 = "C"
              @ 3,1 SAY "*"
           CASE SICT2 = "D"
              @ 4,1 SAY "*"
           CASE SICT2 = "E"
              @ 5,1 SAY "*"
           CASE SICT2 = "F"
              @ 6,1 SAY "*"
           CASE SICT2 = "G"
              @ 7,1 SAY "*"
           CASE SICT2 = "H"
              @ 8,1 SAY "*"
           CASE SICT2 = "I"
              @ 9,1 SAY "*"
           CASE SICT2 = "J"
              @ 10,1 SAY "*"
           CASE SICT2 = "K"
              @ 11,1 SAY "*"
           CASE SICT2 = "L"
              @ 12,1 SAY "*"
           CASE SICT2 = "M"
              @ 13,1 SAY "*"
           CASE SICT2 = "N"
              @ 14,1 SAY "*"
     ENDCASE
     ENDIF
     @ 0,29 SAY "SELECT ATTRIBUTE"
     @ 1,2  SAY "A...RANK"
     @ 2,2  SAY "B...PRIMARY MOS "
     @ 3,2  SAY "C...SECONDARY MOS"
     @ 4,2  SAY "D...COMPANY"
     @ 5,2  SAY "E...PLATOON"
     @ 6,2  SAY "F...JOIN DATE"
     @ 7,2  SAY "G...EAS"
     @ 8,2  SAY "H...BIRTH DATE"
     @ 9,2  SAY "I...WEIGHT CONTROL"
     @ 10,2 SAY "J...PFT ONE"
     @ 11,2 SAY "K...PFT TWO"
     @ 12,2 SAY "L...SWIM QUALIFICATION"
     @ 13,2 SAY "M...RIFLE QUALIFICATION"
     @ 14,2 SAY "N...PISTOL QUALIFICATION"
     @ 22,0
     ACCEPT "SELECT ATTRIBUTE ===>" TO MATRIBUT
     IF CCUNT = 1
        STORE MATRIBUT TO SICT1
        DO CASE
         CASE !(SLCT1) = "A"
            STORE 'RANK' TO MATRI1
            STORE 'RANK' TO ATRI1
         CASE !(SICT1) = "B"
            STORE 'PRIMARY MOS' TO MATRI1
            STORE 'PRIMEMOS' TO ATRI1
         CASE !(SICT1) = "C"
            STORE 'SECONDARY MOS' TO MATRI1
            STORE 'SECMOS' TO ATRI1
         CASE !(SLCT1) = "D"
            STORE 'COMPANY' TO MATRI1
            STORE 'COMPANY' TO ATRI1
         CASE !(SLCT1) = "E"
            STORE 'PLATCON' TO MATRI1
            STORE 'PLATOON' TO ATRI1
         CASE !(SICT1) = "F"
            STORE 'JOINDATE' TO MATRI1
            STORE 'JOINDATE' TO ATRI1
         CASE !(SLCT1) = "G"
            STORE 'EAS' TO MATRI1
            STORE 'EAS' TO ATRI1
         CASE !(SLCT1) = "H"
            STORE 'BIRTH DATE' TO MATRI1
```

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```
        STORE 'BRTHDATE' TO ATRI1
    CASE !(SLCT1) = "I"
        STORE ' WEIGHT CONTROL' TC MATRI1
        STORE 'WTCONT' IC ATRI1
    CASE !(SICT1) = "J"
        STORE 'PFT CNE' IO MATRI1
        STORE 'PFT1CLSS' TO ATRI1
    CASE !(SICT1) = "K"
        STORE 'PFT TWO' TO MATRI1
        STORE 'PFT2CLSS' TO ATRI1
    CASE !(SICT1) = "I"
        STORE 'SWIM QUAIIFICATION' TO MATRI1
        STORE 'SWIMQUAL' IO ATRI1
    CASE !(SLCT1) = "M"
        STCRE 'RIFLE QUAIIFICATICN' TO MATRI1
        STORE 'RFLQUAL' IC ATRI1
    CASE !(SLCT1) = "N"
        STORE 'PISTOL QUAIIFICATICN' TO MATRI1
        STORE 'PSTQUAL' IO ATRI1
    OTHERWISE
        STORE T TO REPEAT
    ENDCASE
ENDIF

IF CCUNT = 2
    STCRE MATRIBUT TO SICT2
    DO CASE
    CASE !(SLCT2) = "A"
        STORE 'RANK' TO MATRI2
        STCRE 'RANK' TO ATRI2
    CASE !(SICT2) = "E"
        STORE 'PRIMARY MOS' TO MATRI2
        STORE 'PRIMEMOS' IO ATRI2
    CASE !(SICT2) = "C"
        STORE 'SECONDARY MOS' IO MATRI2
        STORE 'SECMOS' IC ATRI2
    CASE !(SLCT2) = "D"
        STORE 'COMPANY' TO MATRI2
        STCRE 'COMPANY' IC ATRI2
    CASE !(SICT2) = "E"
        STORE 'PLATCON' IO MATRI2
        STORE 'PLATCON' IO ATRI2
    CASE !(SICT2) = "F"
        STCFE 'JOINDATE' TO MATRI2
        STORE 'JOINDATE' IO ATRI2
    CASE !(SICT2) = "G"
        STORE 'EAS' TO MATRI2
        STORE 'EAS' TO ATRI2
    CASE !(SICT2) = "F"
        STORE 'BIRTH DATE' TO MATRI2
        STORE 'BRTHDATE' TO ATRI2
    CASE !(SLCT2) = "I"
        STORE ' WEIGHT CCNTROL' TC MATRI2
        STORE 'WTCONT' IC ATRI2
    CASE !(SICT2) = "J"
        STORE 'PFT ONE' TO MATRI2
        STORE 'PFT1CLSS' IO ATRI2
    CASE !(SICT2) = "K"
        STORE 'PFT TWO' TO MATRI2
        STORE 'PFT2CLSS' TO ATRI2
    CASE !(SICT2) = "I"
        STORE 'SWIM QUAIIFICATICN' TO MATRI2
        STORE 'SWIMQUAL' IO ATRI2
    CASE !(SLCT2) = "M"
        STORE 'RIFLE QUAIIFICATICN' TO MATRI2
        STORE 'RFLQUAL' IO ATRI2
    CASE !(SICT2) = "N"
        STCRE 'PISTOL QUALIFICATION' TO MATRI2
        STCFE 'PSTQUAL' IO ATRI2
```

```
      OTHERWISE
         STORE T TO REPEAT
      ENDCASE
   ENDIF

IF COUNT = 3
   STORE MATRIBUT TO SICT3
   DO CASE
      CASE !(SICT3) = "A"
         STORE 'RANK' TO MATRI3
         STORE 'RANK' TO ATRI3
      CASE !(SICT3) = "E"
         STORE 'PRIMARY MOS' TO MATRI3
         STORE 'PRIMEMOS' TO ATRI3
      CASE !(SICT3) = "C"
         STORE 'SECONDARY MOS' TO MATRI3
         STORE 'SECMOS' TC ATRI3
      CASE !(SICT3) = "D"
         STORE 'COMPANY' TC MATRI3
         STORE 'COMPANY' TC ATRI3
      CASE !(SLCT3) = "E"
         STORE 'PLATCON' TC MATRI3
         STORE 'PLATOON' TO ATRI3
      CASE !(SICT3) = "F"
         STORE 'JOINDATE' TO MATRI3
         STORE 'JOINDATE' TO ATRI3
      CASE !(SICT3) = "G"
         STORE 'EAS' TO MATRI3
         STORE 'EAS' TO ATRI3
      CASE !(SLCT3) = "E"
         STORE 'BIRTH DATE' TO MATRI3
         STORE 'BRTHDATE' TO ATRI3
      CASE !(SLCT3) = "I"
         STORE ' WEIGHT CCNTROL' TC MATRI3
         STORE 'WTCONT' TC ATRI3
      CASE !(SICT3) = "J"
         STORE 'PFT ONE' TO MATRI3
         STORE 'PFT1CLSS' TO ATRI3
      CASE !(SICT3) = "K"
         STORE 'PFT TWO' TO MATRI3
         STORE 'PFT2CLSS' TO ATRI3
      CASE !(SLCT3) = "L"
         STORE 'SWIM QUALIFICATION' TO MATRI3
         STORE 'SWIMQUAL' TO ATRI3
      CASE !(SICT3) = "M"
         STORE 'RIFLE QUALIFICATICN' TO MATRI3
         STORE 'RFLQUAL' TO ATRI3
      CASE !(SICT3) = "N"
         STORE 'PISTOL QUALIFICATION' TO MATRI3
         STORE 'PSTQUAL' TO ATRI3
      OTHERWISE
         STORE T TO REPEAT
      ENDCASE
ENDIF
DO SICTDESC
ENDDC
RETURN
```

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D. SELECT DESCRIPTOR ROUTINE

```
* ROUTINE NAME: SLCTDESC.PRG
* MODULE NAME: NONSTANDARD REPORT GENERATOR
* VERSION: 4.2.1.0
* AUTHOR: R.E. PRUIETT
* DATE: 14FEB84
* VARIABLES USED: COUNT,
* VARIABLES MODIFIED: DESC1, DESC2, DESC3
* VARIABLES CREATED: MRANK, MSECMOS, MCOMPANY, MPLATOON,
* MJOINDTE, MEAS, MWTCONTL, MPFTONE, MPFTTWO, MSWMQUAL,
* MRIFQUAL, MPISQUAL, MRANK2, MPRIMOS2, MSECMOS2, MCOMPNY2,
* MPLAT2, MJNDTE2, MEAS2, MBIRDTE2, MWTCNTL2, MPFTONE2,
* MPFTTWO2, MSWMQAL2, MRIFQAL2, MPISQAL2, MRANK3, MPRIMOS3,
* MSECMOS3, MCOMPNY3, MPLAT3, MJNDTE3, MEAS3, MBIRDTE3,
* MWTCNTL3, MPFTONE3, MPFTTWO3, MSWMQAL3, MRIFQAL3,
* MPISQAL3,
* VARIABLES RELEASED: NONE
* FILES OPENED/CLOSED: NONE
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: SLCTATRI.PRG (4.2.0)
* DESCRIPTION: THIS ROUTINE PROMPTS THE USER AFTER EACH
* REQUEST FOR A NEW ATTRIBUTE TO SELECT THE DESCRIPTION FOR
* THE CORRESPONDING ATTRIBUTE.  FOR EXAMPLE, IF THE USER
* HAS SELECTED THE ATTRIBUTE COMPANY, THIS ROUTINE WILL ASK
* WHICH COMPANY AND PROVIDES A RANGE/EXAMPLE OF APPROPRIATE
* DESCRIPTIONS (E.G., A CO, B CO, ETC).
ERASE
IF COUNT = 1
DO CASE
    CASE !(SLCT1) = "A"
        STORE '  ' TO MRANK
        @ 8,0 SAY "TYPE IN DESIRED RANK DESCRIPTION";
        "(E1,E5,O2,ETC.)"
        @ 8,48 GET MRANK PICTURE 'XX'
        READ
        STORE MRANK TO DESC1
    CASE !(SLCT1) = "B"
        STORE '    ' TO MPRIMOS
        @ 8,0 SAY "TYPE IN DESIRED PRIMARY MOS DESCRIPTION";
        "(0311,0331,ETC.)"
        @ 8,58 GET MPRIMOS PICTURE 'XXXX'
        READ
        STORE MPRIMOS TO DESC1
    CASE !(SLCT1) = "C"
        STORE '    ' TO MSECMOS
        @ 8,0 SAY "TYPE IN DESIRED SECONDARY MOS DESCRIPTION";
        "(0311,0331,ETC.)"
        @ 8,60 GET MSECMOS PICTURE 'XXXX'
        READ
        STORE MSECMOS TO DESC1
    CASE !(SLCT1) = "D"
        STORE '     ' TO MCOMPANY
        @ 8,0 SAY "TYPE IN DESIRED COMPANY DESCRIPTION (A";
        "CO,WPNS CO,H&S CO)"
        @ 8,58 GET MCOMPANY PICTURE 'XXXXX'
        READ
        STORE MCOMPANY TO DESC1
    CASE !(SLCT1) = "E"
        STORE '     ' TO MPLATOON
        @ 8,0 SAY "TYPE IN DESIRED PLATOON DESCRIPTION (1ST";
        "PLAT,3D PLAT,ETC)"
        @ 8,60 GET MPLATOON PICTURE 'XXXXXXXXX'
        READ
        STORE MPLATOON TO DESC1
    CASE !(SLCT1) = "F"
        STORE '     ' TO MJOINDTE
        @ 8,0 SAY "TYPE IN DESIRED JOIN DATE DESCRIPTION";
```

```
        "(220183,0183,83,ETC.) "
        @ 8,64 GET MJOINDTE PICTURE 'XXXXX'
        READ
        STORE MJOINDTE TO DESC1
    CASE !(SICT1) = "G"
        STORE ' ' TO MEAS
        @ 8,0 SAY "TYPE IN DESIRED EAS DESCRIPTION";
        "(220183,0183,83,ETC.) "
        @ 8,55 GET MEAS PICTURE 'XXXXX'
        READ
        STORE MEAS TO DESC1
    CASE !(SICT1) = "H"
        STORE ' ' TO MBIRDATE
        @ 8,0 SAY "TYPE IN DESIRED EIRTH DATE DESCRIPTION";
        "(220183,0183,83,ETC.) "
        @ 8,60 GET MBIRDATE PICTURE 'XXXXX'
        READ
        STORE MBIRDATE TO DESC1
    CASE !(SICT1) = "I"
        STORE ' ' TO MWTCONTL
        @ 8,0 SAY "TYPE IN DESIRED WEIGHT CONTROL DESCRIPTION";
        "(YES CR NO)"
        @ 8,55 GET MWTCCNTL PICTURE 'XXX'
        READ
        STORE MWTCONTL TO DESC1
    CASE !(SICT1) = "J"
        STORE ' ' TO MPFTONE
        @ 8,0 SAY "TYPE IN DESIRED PFT ONE DESCRIPTION";
        "(S,1,2,3,F,*)"
        @ 8,50 GET MPFTCNE PICTURE 'X'
        READ
        STORE MPFTONE TO DESC1
    CASE !(SICT1) = "K"
        STORE ' ' TO MPFTTWO
        @ 8,0 SAY "TYPE IN DESIRED PFT TWO DESCRIPTION";
        "(S,1,2,3,F,*)"
        @ 8,50 GET MPFTTWO PICTURE 'X'
        READ
        STORE MPFTTWO TO DESC1
    CASE !(SICT1) = "I"
        STORE ' ' TO MSWMQUAL
        @ 8,0 SAY "TYPE IN DESIRED SWIMMING QUALIFICATION";
        "DESCRIPTION"
        @ 9,0 SAY "(S1,S2,S3,UN,**)"
        @ 9,17 GET MSWMQUAL PICTURE 'XX'
        READ
        STORE MSWMQUAL TO DESC1
    CASE !(SICT1) = "M"
        STORE ' ' TO MRIFQUAL
        @ 8,0 SAY "TYPE IN DESIRED RIFLE QUALIFICATION";
        "DESCRIPTION"
        @ 9,0 SAY "(EX,SS,MM,UN,**)"
        @ 9,18 GET MRIFQUAL PICTURE 'XX'
        READ
        STORE MRIFQUAL TO DESC1
    CASE !(SICT1) = "N"
        STORE ' ' TO MPISQUAL
        @ 8,0 SAY "TYPE IN DESIRED PISTOL QUALIFICATION";
        "DESCRIPTION"
        @ 9,0 SAY "(EX,SS,MM,UN,**)"
        @ 9,18 GET MPISQUAL PICTURE 'XX'
        READ
        STORE MPISQUAL TO DESC1
    ENDCASE
ENDIF
IF COUNT = 2
DO CASE
    CASE !(SICT2) = "A"
        STORE ' ' TO MRANK2
```

```
         @ 8,0 SAY "TYPE IN DESIRED RANK DESCRIPTION;
         (E1,E5,02,ETC.) "
         @ 8,48 GET MRANK2 PICTURE 'XX'
         READ
         STORE MRANK2 TO DESC2
CASE !(SLCT2) = "B"
         STORE '      ' TC MPRIMCS2
         @ 8,0 SAY "TYPE IN DESIRED PRIMARY MOS DESCRIPTION;
         (0311,0331,ETC.) "
         @ 8,58 GET MPRIMCS2 PICTURE 'XXXX'
         READ
         STORE MPRIMCS2 TC DESC2
CASE !(SLCT2) = "C"
         STORE '      ' TC MSECMCS2
         @ 8,0 SAY "TYPE IN DESIRED SECONDARY MOS DESCRIPTION;
         (0311,0331,ETC.) "
         @ 8,60 GET MSECMCS2 PICTURE 'XXXX'
         READ
         STORE MSECMOS2 TC DESC2
CASE !(SLCT2) = "D"
         STORE '          ' TC MCOMPNY2
         @ 8,0 SAY "TYPE IN DESIRED COMPANY DESCRIPTION (A;
         CO,WENS CO,H&S CC) "
         @ 8,58 GET MCOMPNY2 PICTURE 'XXXXXX'
         READ
         STORE MCOMPNY2 TC DESC2
CASE !(SLCT2) = "E"
         STORE '          ' TO MPLAT2
         @ 8,0 SAY "TYPE IN DESIRED PLATOON DESCRIPTION (1ST;
         PLAT,3D PLAT,ETC) "
         @ 8,60 GET MPLAT2 PICTURE 'XXXXXXXX'
         READ
         STORE MPLAT2 TO DESC2
CASE !(SLCT2) = "F"
         STORE '      ' TC MJNDTE2
         @ 8,0 SAY "TYPE IN DESIRED JOIN DATE DESCRIPTION;
         (220183,0183,83,ETC.) "
         @ 8,64 GET MJNDTE2 PICTURE 'XXXXXX'
         READ
         STORE MJNDTE2 TC DESC2
CASE !(SLCT2) = "G"
         STORE '      ' TO MEAS2
         @ 8,0 SAY "TYPE IN DESIRED EAS DESCRIPTION;
         (220183,0183,83,ETC.) "
         @ 8,55 GET MEAS2 PICTURE 'XXXXXX'
         READ
         STORE MEAS2 TO DESC2
CASE !(SLCT2) = "H"
         STORE '      ' TC MBIRDTE2
         @ 8,0 SAY "TYPE IN DESIRED BIRTH DATE DESCRIPTION;
         (220183,0183,83,ETC.) "
         @ 8,60 GET MBIRDTE2 PICTURE 'XXXXXX'
         READ
         STORE MBIRDTE2 TC DESC2
CASE !(SLCT2) = "I"
         STORE '   ' TO MWTCNTL2
         @ 8,0 SAY "TYPE IN DESIRED WEIGHT CONTROL DESCRIPTION;
         (YES CR NO) "
         @ 8,55 GET MWTCNTL2 PICTURE 'XXX'
         READ
         STORE MWTCNTL2 TC DESC2
CASE !(SLCT2) = "J"
         STORE ' ' TO MPFTCNE2
         @ 8,0 SAY "TYPE IN DESIRED PFT ONE DESCRIPTION;
         (S,1,2,3,F,*) "
         @ 8,50 GET MPFTCNE2 PICTURE 'X'
         READ
         STORE MPFTONE2 TC DESC2
CASE !(SLCT2) = "K"
```

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```
        STORE ' ' TC MPFTTWO2
        @ 8,0 SAY "TYPE IN DESIRED PFT TWO DESCRIPTION;
        (S,1,2,3,F,*)"
        @ 8,50 GET MPFTTWC2 PICTURE 'X'
        READ
        STORE MPFTTWO2 TC DESC2
    CASE !(SLCT2) = "L"
        STORE ' ' TO MSWMQAL2
        @ 8,0 SAY "TYPE IN DESIRED SWIMMING QUALIFICATICN;
        DESCRIPTION"
        @ 9,0 SAY "(S1,S2,S3,UN,**)"
        @ 9,17 GET MSWMQAL2 PICTURE 'XX'
        READ
        STORE MSWMQAL2 TC DESC2
    CASE !(SLCT2) = "M"
        STORE ' ' TO MRIFQAL2
        @ 8,0 SAY "TYPE IN DESIRED RIFLE QUALIFICATION;
        DESCRIPTION"
        @ 9,0 SAY "(EX,SS,MM,UN,**)"
        @ 9,18 GET MRIFQAL2 PICTURE 'XX'
        READ
        STORE MRIFQAL2 TC DESC2
    CASE !(SLCT2) = "N"
        STORE ' ' TO MPISQAL2
        @ 8,0 SAY "TYPE IN DESIRED PISTOL QUALIFICATION;
        DESCRIPTION"
        @ 9,0 SAY "(EX,SS,MM,UN,**)"
        @ 9,18 GET MPISQAL2 PICTURE 'XX'
        READ
        STORE MPISQAL2 TO DESC2
    ENDCASE
ENDIF
IF CCUNT = 3
DO CASE
    CASE !(SLCT3) = "A"
        STORE ' ' TO MRANK3
        @ 8,0 SAY "TYPE IN DESIRED RANK DESCRIPTION;
        (E1,E5,02,ETC.)"
        @ 8,48 GET MRANK3 PICTURE 'XX'
        READ
        STORE MRANK3 TO DESC3
    CASE !(SLCT3) = "E"
        STORE ' ' TC MPRIMCS3
        @ 8,0 SAY "TYPE IN DESIRED PRIMARY MOS DESCRIPTION;
        (0311,0331,ETC.)"
        @ 8,58 GET MPRIMCS3 PICTURE 'XXXX'
        READ
        STORE MPRIMOS3 TC DESC3
    CASE !(SLCT3) = "C"
        STORE ' ' TC MSECMCS3
        @ 8,0 SAY "TYPE IN DESIRED SECONDARY MOS DESCRIPTICN;
        (0311,0331,ETC.)"
        @ 8,60 GET MSECMCS3 PICTURE 'XXXX'
        READ
        STORE MSECMCS3 IC DESC3
    CASE !(SLCT3) = "D"
        STORE ' ' TC MCOMPNY3
        @ 8,0 SAY "TYPE IN DESIRED COMPANY DESCRIPTION (A;
        CO,WPNS CO,H&S CC)"
        @ 8,58 GET MCOMPNY3 PICTURE 'XXXXXX'
        READ
        STORE MCOMPNY3 TC DESC3
    CASE !(SLCT3) = "E"
        STORE ' ' TO MPLAT3
        @ 8,0 SAY "TYPE IN DESIRED PLATOON DESCRIPTION (1ST;
        PLAT,3D PLAT,ETC)"
        @ 8,60 GET MPLAT3 PICTURE 'XXXXXXXX'
        READ
        STORE MPLAT3 TO DESC3
```

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```
CASE !(SLCT3) = "F"
    STORE '    ' TC MJNDTE3
    @ 8,0 SAY "TYPE IN DESIRED JOIN DATE DESCRIPTION;
    (220183,0183,83,ETC.)"
    @ 8,64 GET MJNDTE3 PICTURE 'XXXXXX'
    REAL
    STORE MJNDTE3 TC DESC3
CASE !(SLCT3) = "G"
    STORE '    ' TO MEAS3
    @ 8,0 SAY "TYPE IN DESIRED EAS DESCRIPTION;
    (220183,0183,83,ETC.)"
    @ 8,55 GET MEAS3 PICTURE 'XXXXXX'
    REAL
    STORE MEAS3 TO DESC3
CASE !(SLCT3) = "H"
    STORE '        ' TC MBIRDTE3
    @ 8,0 SAY "TYPE IN DESIRED BIRTH DATE DESCRIPTION;
    (220183,0183,83,ETC.)"
    @ 8,60 GET MBIRDTE3 PICTURE 'XXXXXX'
    REAL
    STORE MBIRDTE3 TC DESC3
CASE !(SLCT3) = "I"
    STORE '    ' TO MWTCNTL3
    @ 8,0 SAY "TYPE IN DESIRED WEIGHT CONTROL DESCRIPTION;
    (YES CR NO)"
    @ 8,55 GET MWTCNTL3 PICTURE 'XXX'
    REAL
    STORE MWTCNTL3 TC DESC3
CASE !(SLCT3) = "J"
    STORE ' ' TO MPFTONE3
    @ 8,0 SAY "TYPE IN DESIRED PFT ONE DESCRIPTION;
    (S,1,2,3,F,*)"
    @ 8,50 GET MPFTONE3 PICTURE 'X'
    REAL
    STORE MPFTONE3 TC DESC3
CASE !(SLCT3) = "K"
    STORE ' ' TC MPFTTWO3
    @ 8,0 SAY "TYPE IN DESIRED PFT TWO DESCRIPTION;
    (S,1,2,3,F,*)"
    @ 8,50 GET MPFTTWO3 PICTURE 'X'
    REAL
    STORE MPFTTWO3 TC DESC3
CASE !(SLCT3) = "L"
    STORE ' ' TO MSWMQAL3
    @ 8,0 SAY "TYPE IN DESIRED SWIMMING QUALIFICATION;
    DESCRIPTION"
    @ 9,0 SAY " (S1,S2,S3,UN,**)"
    @ 9,17 GET MSWMQAL3 PICTURE 'XX'
    REAL
    STORE MSWMQAL3 TC DESC3
CASE !(SLCT3) = "M"
    STORE ' ' TO MRIFQAL3
    @ 8,0 SAY "TYPE IN DESIRED RIFLE QUALIFICATION;
    DESCRIPTION"
    @ 9,0 SAY " (EX,SS,MM,UN,**)"
    @ 9,18 GET MRIFQAL3 PICTURE 'XX'
    REAL
    STORE MRIFQAL3 TO DESC3
CASE !(SLCT3) = "N"
    STORE ' ' TO MPISQAL3
    @ 8,0 SAY "TYPE IN DESIRED PISTOL QUALIFICATION;
    DESCRIPTION"
    @ 9,0 SAY " (EX,SS,MM,UN,**)"
    @ 9,18 GET MPISQAL3 PICTURE 'XX'
    READ
    STORE MPISQAL3 TC DESC3
ENDCASE
ENDIF
RETURN
```

APPENDIX G

STANDARD COMMAND GENERATOR MODULE LISTINGS

A. STANDARD REPORT ROUTINE

```
* ROUTINE NAME: STDRPT.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.0
* AUTHOR: R.E. PRUIETT
* DATE: 6NOV83
* VARIABLES USED: NONE
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED:  AASTDOPT, AADONE, PROCEED
* VARIABLES RELEASED: AASTDOPT, AADONE, ALL EXCEPT AA?????
* FILES OPENED/CLOSED: NONE
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: COMMAND DETERMINER
* DESCRIPTION: GENERATES THE PRIMARY MENU FOR STANDARD
* REPORT SELECTION AND STORES THE USER'S RESPONSE IN
* AASTDOPT.  CONTROL IS THEN PASSED TO THE APPROPRIATE
* SUBROUTINE TO OBTAIN THE NECESSARY DATA FROM THE
* DATABASE.  THIS ROUTINE WILL CONTINUE UNTIL THE USER
* RESPONDS WITH A "Q".

STORE F TO AADONE
DO WHILE .NOT. AADONE
ERASE
*            PRIMARY MENU FOR STANDARD REPORT SELECTION
@ 2,5 SAY "          STANDARD REPORT SELECTION                    "
@ 3,5 SAY "SELECT A REPORT BY ENTERING THE APPROPRIATE;
 LETTER "
@ 5,5 SAY "A...UNIT ROSTER                                        "
@ 6,5 SAY "B...TRAINING STATUS REPORT                             "
@ 7,5 SAY "C...TRAINING ROSTER REPORT                             "
@ 8,5 SAY "D...INDIVIDUAL TRAINING RECORD                         "
@ 9,5 SAY "E...MARKSMANSHIP STATUS REPORT                         "
@ 10,5 SAY"F...MARKSMANSHIP ROSTER REPORT                         "
@ 11,5 SAY"G...MOS STATUS REPORT                                  "
@ 12,5 SAY"H...MOS ROSTER REPORT                                  "
@ 13,5 SAY"I...PERSONAL DATA REPORT                               "
@ 14,5 SAY"J...EST STATUS REPORT                                  "
@ 15,5 SAY"K...EST ROSTER REPORT                                  "
@ 16,5 SAY"L...SWIM QUALIFICATION REPORT                          "
@ 17,5 SAY"M...HELP                                               "
@ 19,5 SAY"Q...QUIT                                               "
@ 20,5 SAY"                                                       "
@ 21,5 SAY"                                                       "
ACCEPT "SELECT OPTION ======>  " TO AASTDOPT

DO CASE
CASE !(AASTDOPT) = 'A'
    DO SLCTUNIT
    DO UNITROST
    ACCEPT "PRESS 'ENTER' KEY TO CONTINUE" TO PROCEED
CASE !(AASTDOPT) = 'B'
    DO SLCTUNIT
    DO TRNGSTAT
CASE !(AASTDOPT) = 'C'
    DO SLCTUNIT
    DO TRNGROST
    @ 22,0
```

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```
      ACCEPT "PRESS 'ENTER' KEY TC CONTINUE" TO PROCEED
CASE !(AASTDOPT) = 'D'
      ERASE
      DC VIEWITR
CASE !(AASTDOPT) = 'E'
      DO SLCTUNIT
      DC B:MKSSTAT
CASE !(AASTDOPT) = 'F'
      DO SLCTUNIT
      DO MKSROST
CASE !(AASTDOPT) = 'G'
      DO SLCTUNIT
      DO MOSSTAT
      @ 22,0
      ACCEPT "PRESS 'ENTER' KEY TC CONTINUE" TO PROCEED
CASE !(AASTDOPT) = 'H'
      DO SLCTUNIT
      DO MOSROST
      @ 22,0
      ACCEPT "PRESS 'ENTER' KEY TO CONTINUE" TO PROCEED
CASE !(AASTDOPT) = 'I'
      DO SLCTUNIT
      DC PERSDATA
      @ 22,0
      ACCEPT "PRESS 'ENTER' KEY TC CONTINUE" TO PROCEED
CASE !(AASTDOPT) = 'J'
      DO SLCTUNIT
      DO ESTSTAT
CASE !(AASTDOPT) = 'K'
      DO SLCTUNIT
      DC ESTROST
      @ 22,0
      ACCEPT "PRESS 'ENTER' KEY TC CONTINUE" TO PROCEED
CASE !(AASTDOPT) = 'L'
      DO SLCTUNIT
      DC SWIMQUAL
CASE !(AASTDOPT) = 'M'
      DO A:HELP
ENDCASE

IF !(AASTDOPT) = 'Q'
      STORE T TO AADONE
ENDIF

ENDDO
RELEASE AADONE,AASTDOPT
RELEASE ALL EXCEPT AA?????
USE
RETURN
```

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B. SELECT UNIT ROUTINE

```
* ROUTINE NAME: SLCTUNIT.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.1.0
* AUTHOR: R.E. PRUIETT
* DATE: 6NOV83
* VARIABLES USED: ONECO, TWOCO, THREECO, FOURCO, ONEPLT,
* TWOPLT, THREEPLT,FOURPLT
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: MUNIT, MPLAT
* VARIABLES RELEASED: NONE
* FILES OPENED/CLOSED: NONE
* TEMP FILES CREATED: NONE
* USING ROUTINES: STDRPT.PRG (5.0)
* DESCRIPTION: THIS ROUTINE PROMPTS THE USER TO SELECT
* THE SIZE AND NAME OF THE UNIT (I.E., BATTALION,COMPANY,
* PLATOON) FOR THE REPORT GENERATION.  THE USER RESPONDS
* WITH A LETTER THAT CORRESPONDS TO A USER INSTALLED CC OR
* PLT DESIGNATION.  THIS ROUTINE WILL EXECUTE ONCE EACH
* TIME CALLED.

STORE F TO SLCTDONE
RESTORE FROM A:UNITMEM ADDITIVE

DO WHILE .NOT. SLCTDONE
ERASE
@ 6,5 SAY "SELECT UNIT                                        "
@ 8,5 SAY "A..."
@ 8,9 SAY ONECO
@ 10,5 SAY "B..."
@ 10,9 SAY TWOCO
@ 12,5 SAY "C..."
@ 12,9 SAY THREECO
@ 14,5 SAY "D..."
@ 14,9 SAY FOURCO
@ 16,5 SAY "E...BATTALION                                     "
@ 17,5 SAY "                                                  "
@ 18,5 SAY "                                                  "
ACCEPT "SELECT OPTION ======> " TO MUNIT
IF !(MUNIT) = 'A'.OR. !(MUNIT)='B' .OR. !(MUNIT)='C' .OR.;
!(MUNIT)='D' .OR. !(MUNIT)='E'
      STORE T TO SLCTDONE
ENDIF
ENDDO

STORE F TO SLCTDONE
DO WHILE .NOT. SLCTDONE .AND. !(MUNIT)<>'E'
IF !(MUNIT) = 'A' .OR. !(MUNIT) = 'B' .OR. !(MUNIT) = 'C';
    .OR. !(MUNIT) = 'D'
    ERASE
    @ 10,5 SAY "SELECT SUBUNIT SIZE"
    @ 12,5 SAY "A..."
    @ 12,9 SAY ONEPLT
    @ 14,5 SAY "B..."
    @ 14,9 SAY TWOPLT
    @ 16,5 SAY "C..."
    @ 16,9 SAY THREEPLT
    @ 18,5 SAY "D..."
    @ 18,9 SAY FOURPLT
    @ 20,5 SAY "E...ALL OF UNIT                               "
    @ 21,5 SAY "                                              "
    @ 22,5 SAY "                                              "
    ACCEPT "SELECT OPTION =======>  " TO MPLAT
ENDIF
IF !(MPLAT)='A' .OR. !(MPLAT)='B' .OR. !(MPLAT)='C' .OR.;
!(MPLAT)='D' .OR. !(MPLAT)='E'
   STORE T TO SLCTDONE
```

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ENDIF
ENDDC
IF !(MUNIT) = 'E'
    STCRE 'Z' TO MPLAT
ENDIF
RELEASE SLCTDONE
USE
RETURN
```

C. UNIT ROSTER ROUTINE

```
* ROUTINE NAME: UNITECST.PRG
* MODULE NAME: STANDARD REPCRT GENERATOR
* VERSICN: 5.2.0
* AUTHCR: R. E. PRUIFIT
* DATE: 6NOV83
* VARIABLES USED: MUNIT, MPLAT, ONECO, TWOCO, THREECO,
* FOURCO, CNEPLT, TWCELT, THREEPLT, FOURPLT
* VARIABIES MODIFIED: NONE
* VARIAELES CREATED: NONE
* VARIAEIES RELEASED: MUNIT, MPIAT
* FILES (OPENED/CLOSEL): A:PERS INDEX A:ALPHPERS
* TEME FILES CREATED: NCNE
* USING SUEROUTINES: STDRPT.PRG
* DESCRIEIICN: THIS IS A CONTRCL ROUTINE WHICH CREATES THE
* PERSCNNEL ROSTER FOR THE UNIT SPECIFIED BY THE USER'S
* RESECNSE TO THE SLCTUNIT MENU(5.1.0).

ERASE
USE A:PEFS INDEX A:AIPHPERS
DO CASE
    CASE !(MUNIT) = 'E'
        REFORT FORM B:ECSTRPT
    CASE !(MUNIT) = 'A'.AND. !(MPLAT) = 'E'
        REFORT FORM B:ECSTRPT FCR COMPANY = ONECO
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'A'
        REFORT FORM B:ECSTRPT FCR COMPANY = ONECO .AND.;
        FLATOCN = ONEPIT
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'B'
        REFORT FORM B:ECSTRPT FOR COMPANY = ONECO .AND.;
        FLATCCN = TWOPIT
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'C'
        REFORT FORM B:ECSTRPT FOR COMPANY = ONECO .AND.;
        FLATCCN = THREEPLT
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'D'
        REFORT FORM B:ECSTRPT FOR COMPANY = ONECO .AND.;
        FLATCCN = FOUREIT
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'E'
        REFORT FORM B:ECSTRPT FOR COMPANY = TWOCO
    CASE !(MUNIT) = 'E' .AND. !(MFLAT) = 'A'
        REFORT FORM B:ECSTRPT FOR COMPANY = TWOCO .AND.;
        FLATCCN = CNEPIT
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'B'
        REFORT FORM B:ECSTRPT FOR COMPANY = TWOCO .AND.;
        FLATCCN = TWOPIT
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'C'
        REFORT FORM B:ECSTRPT FOR COMPANY = TWOCO .AND.;
        FLATCCN = THREEPLT
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'D'
        REFORT FORM B:ECSTRPT FOR COMPANY = TWOCO .AND.;
        FLATCCN = FOUREIT
    CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'E'
        REFORT FORM B:ECSTRPT FOR COMPANY = THREECO
    CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'A'
        REFORT FORM B:ECSTRPT FCR COMPANY = THREECO .AND.;
        FLATCCN = ONEPIT
    CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'B'
        REFORT FORM B:ECSTRPT FCR COMPANY = THREECO .AND.;
        FLATCCN = TWOPIT
    CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'C'
        REFORT FORM B:ECSTRPT FCR COMPANY = THREECO .AND.;
        FLATCCN = THREEPLT
    CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'D'
        REFORT FORM B:ECSTRPT FCR COMPANY = THREECO .AND.;
        FLATCCN = FOUREIT
    CASE !(MUNIT) = 'L' .AND. !(MPLAT) = 'E'
        REFORT FORM B:ECSTRPT FCR COMPANY = FOURCO
```

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      CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'A'
          REPORT FORM B:FCSTRPT FCR COMPANY = FOURCO .AND.;
          PLATCCN = ONEPLT
      CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'B'
          REPORT FORM B:FCSTRPT FOR COMPANY = FOURCO .AND.;
          PLATCCN = TWOPLT
      CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'C'
          REPORT FORM B:FCSTRPT FCR COMPANY = FOURCO .AND.;
          PLATCCN = THREEPLT
      CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'D'
          REPORT FORM B:FOSTRPT FOR COMPANY = FOURCO .AND.;
          PLATCCN = FOURPLT
ENDCASE
USE
RELEASE MUNIT, MPLAT
RETURN
```

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D. TRAINING STATISTICS ROUTINE

```
* ROUTINE NAME: TRNGSTAT.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.3.0
* AUTHOR: R. E. PRUIETT
* DATE: 22DEC83
* VARIABLES USED: MUNIT, MPLAT, ZZACOC, ZZTOTAL, ZZBCOC,
* ZZCCOC, ZZAHIS, ZZBHIS, ZZCHIS, ZZACOD, ZZBCOD, ZZCCOC,
* ZZAINT, ZZBINT, ZZCINT, ZZAAID, ZZBAID, ZZCAID, ZZDAID,
* ZZEAID, ZZFAID, ZZGAID, ZZHAID, ZZIAID, ZZJAID, ZZKAID,
* PROCEED, ZZAUNI, ZZBUNI, ZZCUNI, ZZANBC, ZZBNBC, ZZCNBC,
* ZZDNBC, ZZENBC, ZZFNBC, ZZAMKS, ZZBMKS, ZZCMKS, ZZDMKS,
* ZZEMKS, ZZFMKS, ZZATAC, ZZBTAC, ZZCTAC, ZZDTAC, ZZETAC,
* ZZPFT1, ZZPFT2, ZZSWIM, ZZRFL, ZZPST, ZZNAPST, ZZNARFL
* VARIABLES MODIFIED: NO GLOBAL VARIABLES MODIFIED
* VARIABLES CREATED: NONE
* VARIABLES RELEASED: ZZ???????
* FILES (OPENED/CLOSED):EST, PERS, QUAL (ALL FILES CLOSED)
* TEMP FILES CREATED: TEMP,
* USING SUBROUTINES: STDRPT.PRG
* DESCRIPTION: FOR THE SELECTED UNIT, THIS ROUTINE
* CALCULATES THE TOTAL NUMBER OF TRAINING ELEMENTS
* COMPLETED FOR EACH TRAINING CATEGORY.  FOR EXAMPLE, THE
* TRAINING CATEGORY "HISTORY" CONSIST OF THREE TRAINING
* ELEMENTS( A, B, C).  A PERCENTAGE COMPLETED FIGURE IS
* CALCULATED FOR EACH TRAINING ELEMENT BY DIVIDING THE
* TOTAL TRAINING ELEMENTS COMPLETED ( EX. ZZAHIS, ZZBHIS,
* ZZCHIS) BY THE TOTAL NUMBER OF PERSONNEL IN THE
* UNIT(ZZTOTAL). BOTH THE ABSOLUTE TOTALS FOR EACH ELEMENT
* AND THE PERCENTAGE COMPLETED FIGURES ARE SHOWN.

ERASE
@ 12,35 SAY "WORKING"
DO CASE
    CASE !(MUNIT) = 'E'
        USE B:EST
        DO CNTTRNG
    CASE !(MUNIT) = 'A'.AND. !(MPLAT) = 'E'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:EST
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.SSN=S.SSN)
        FIELDS COC,HIS,COD,INT,AID,UNI,;
        PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
        USE TEMP
        DO CNTTRNG
        DELETE FILE TEMP
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'A'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:EST
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON =;
        ONEPLT .AND. P.SSN=S.SSN) FIELDS;
        COC,HIS,COD,INT,AID,UNI,PFT1CLSS,;
        PFT2CLSS,NBC,MKS,TAC
        USE TEMP
        DO CNTTRNG
        DELETE FILE TEMP
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'B'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:EST
```

```
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON =;
        TWOPLT .AND. P.SSN=S.SSN) FIELDS;
        COC,HIS,COD,INT,AID,UNI,PFT1CLSS,;
        PFT2CLSS,NBC,MKS,TAC
        USE TEMP
        DO CNTTRNG
        DELETE FILE TEMP
CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'C'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:EST
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON =;
        THREEPLT .AND. P.SSN=S.SSN) FIELDS;
        COC,HIS,COD,INT,AID,UNI,PFT1CLSS,;
        PFT2CLSS,NBC,MKS,TAC
        USE TEMP
        DO CNTTRNG
        DELETE FILE TEMP
CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'D'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:EST
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON =;
        FOURPLT .AND. P.SSN=S.SSN) FIELDS;
        COC,HIS,COD,INT,AID,UNI,PFT1CLSS,;
        PFT2CLSS,NBC,MKS,TAC
        USE TEMP
        DO CNTTRNG
        DELETE FILE TEMP
CASE !(MUNIT) = 'B' .AND. !(MPLAT) = 'E'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:EST
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =TWOCO .AND.;
        P.SSN=S.SSN) FIELDS COC,HIS,COD,INT,;
        AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
        USE TEMP
        DO CNTTRNG
        DELETE FILE TEMP
CASE !(MUNIT) = 'B' .AND. !(MPLAT) = 'A'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:EST
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =TWOCO .AND. P.PLATOON =;
        ONEPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,;
        INT,AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
        USE TEMP
        DO CNTTRNG
        DELETE FILE TEMP
CASE !(MUNIT) = 'B' .AND. !(MPLAT) = 'B'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:EST
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =TWOCO .AND. P.PLATOON =;
        TWOPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,;
        INT,AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
        USE TEMP
        DO CNTTRNG
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        DELETE FILE TEMP
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'C'
    SELECT PRIMARY
    USE A:PERS
    SELECT SECONDARY
    USE B:EST
    SELECT PRIMARY
    JOIN TO TEMP FCR (P.COMPANY =TWOCO .AND. P.PLATOON =;
    THREEPLT .AND. E.SSN=S.SSN) FIELDS COC,HIS,COD,;
    INT,AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
    USE TEMP
    DO CNTTRNG
    DELETE FILE TEMP
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'D'
    SELECT PRIMARY
    USE A:PERS
    SELECT SECONDARY
    USE B:EST
    SELECT PRIMARY
    JOIN TO TEMP FCR (P.COMPANY =TWOCO .AND. P.PLATOON =;
    FOURPLT .AND. E.SSN=S.SSN) FIELDS COC,HIS,COD,;
    INT,AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
    USE TEMP
    DO CNTTRNG
    DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'E'
    SELECT PRIMARY
    USE A:PERS
    SELECT SECONDARY
    USE B:EST
    SELECT PRIMARY
    JOIN TO TEMP FCR (P.COMPANY =THREECO .AND.;
    P.SSN=S.SSN) FIELDS CCC,HIS,COD,INT,;
    AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
    USE TEMP
    DO CNTTRNG
    DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'A'
    SELECT PRIMARY
    USE A:PERS
    SELECT SECONDARY
    USE B:EST
    SELECT PRIMARY
    JOIN TO TEMP FCR (P.COMPANY =THREECO .AND. P.PLATOON;
    = CNEPLT .AND. E.SSN=S.SSN) FIELDS COC,HIS,;
    COD,INT,AID,UNI,PFT1CLSS, PFT2CLSS,NBC,MKS,TAC
    USE TEMP
    DO CNTTRNG
    DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'B'
    SELECT PRIMARY
    USE A:PERS
    SELECT SECONDARY
    USE B:EST
    SELECT PRIMARY
    JOIN TO TEMP FCR (P.COMPANY =THREECO .AND. P.PLATOON;
    = TWOPLT .AND. E.SSN=S.SSN) FIELDS COC,HIS,COD,;
    INT,AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
    USE TEMP
    DO CNTTRNG
    DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'C'
    SELECT PRIMARY
    USE A:PERS
    SELECT SECONDARY
    USE B:EST
    SELECT PRIMARY
    JOIN TO TEMP FCR (P.COMPANY =THREECO .AND. P.PLATOON;
    = THREEPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,CCD,;
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          INT,AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
          USE TEMP
          DO CNTTRNG
          DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'D'
          SELECT PRIMARY
          USE A:PERS
          SELECT SECCNDARY
          USE B:EST
          SELECT PRIMARY
          JOIN TO TEMP FCR (P.COMPANY =THREECO .AND. P.PLATCON;
          = FOURPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,;
          INT,AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
          USE TEMP
          DO CNTTRNG
          DELETE FILE TEMP
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'E'
          SELECT PRIMARY
          USE A:PERS
          SELECT SECCNDARY
          USE B:EST
          SELECT PRIMARY
          JOIN TO TEMP FCR (P.COMPANY =FOURCO .AND.;
          P.SSN=S.SSN) FIELDS COC,HIS,COD,INT,;
          AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
          USE TEMP
          DO CNTTRNG
          DELETE FILE TEMP
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'A'
          SELECT PRIMARY
          USE A:PERS
          SELECT SECCNDARY
          USE B:EST
          SELECT PRIMARY
          JOIN TO TEMP FCR (P.COMPANY =FOURCO .AND. P.PLATCCN;
          = CNEPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,;
          INT,AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
          USE TEMP
          DO CNTTRNG
          DELETE FILE TEMP
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'B'
          SELECT PRIMARY
          USE A:PERS
          SELECT SECCNDARY
          USE B:EST
          SELECT PRIMARY
          JOIN TO TEMP FCR (P.COMPANY =FOURCO .AND. P.PLATCCN;
          = TWOPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,CCD,INT,;
          AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
          USE TEMP
          DO CNTTRNG
          DELETE FILE TEMP
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'C'
          SELECT PRIMARY
          USE A:PERS
          SELECT SECCNDARY
          USE B:EST
          SELECT PRIMARY
          JOIN TO TEMP FCR (P.COMPANY =FOURCO .AND. P.PLATCCN;
          = THREEPLT .AND. P.SSN=S.SSN) FIELDS;
          COC,HIS,COD,INT,AID,UNI,PFT1CLSS,;
          PFT2CLSS,NBC,MKS,TAC
          USE TEMP
          DO CNTTRNG
          DELETE FILE TEMP
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'D'
          SELECT PRIMARY
          USE A:PERS
          SELECT SECCNDARY
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            USE B:EST
            SELECT PRIMARY
            JOIN TO TEMP FOR (P.COMPANY =FOURCO .AND. P.PLATCON;
            = FOURPLT .AND. P.SSN=S.SSN) FIELDS;
            COC,HIS,COD,INI,AID,UNI,PFT1CLSS,;
            PFT2CLSS,NBC,MFS,TAC
            USE TEMP
            DO CNTTRNG
            DELETE FILE TEMP
ENDCASE
ERASE
@ 0,25 SAY "TRAINING STATUS REPORT"
@ 2,0 SAY "CODE OF CONDUCT..."
@ 2,25 SAY (ZZACOC/ZZTOTAL)*100 USING '999'
@ 2,30 SAY "PERCENT COMPLETED A..."
@ 2,52 SAY ZZACOC USING '999'
@ 3,25 SAY (ZZBCOC/ZZTOTAL)*100 USING '999'
@ 3,30 SAY "PERCENT COMPLETED B..."
@ 3,52 SAY ZZBCOC USING '999'
@ 4,25 SAY (ZZCCOC/ZZTOTAL)*100 USING '999'
@ 4,30 SAY "PERCENT COMPLETED C..."
@ 4,52 SAY ZZCCOC USING '999'
@ 6,0 SAY "MARINE CORPS HISTORY..."
@ 6,25 SAY (ZZAHIS/ZZTOTAL)*100 USING '999'
@ 6,30 SAY "PERCENT COMPLETED A..."
@ 6,52 SAY ZZAHIS USING '999'
@ 7,25 SAY (ZZBHIS/ZZTOTAL)*100 USING '999'
@ 7,30 SAY "PERCENT COMPLETED B..."
@ 7,52 SAY ZZBHIS USING '999'
@ 8,25 SAY (ZZCHIS/ZZTOTAL)*100 USING '999'
@ 8,30 SAY "PERCENT COMPLETED C..."
@ 8,52 SAY ZZCHIS USING '999'
@ 10,0 SAY "CLOSE ORDER DRILL..."
@ 10,25 SAY (ZZACOD/ZZTOTAL)*100 USING '999'
@ 10,30 SAY "PERCENT COMPLETED A..."
@ 10,52 SAY ZZACOD USING '999'
@ 11,25 SAY (ZZBCOD/ZZTOTAL)*100 USING '999'
@ 11,30 SAY "PERCENT COMPLETED B..."
@ 11,52 SAY ZZBCOD USING '999'
@ 12,25 SAY (ZZCCOD/ZZTOTAL)*100 USING '999'
@ 12,30 SAY "PERCENT COMPLETED C..."
@ 12,52 SAY ZZCCOD USING '999'
@ 14,0 SAY "INTERIOR GUARD..."
@ 14,25 SAY (ZZAINT/ZZTOTAL)*100 USING '999'
@ 14,30 SAY "PERCENT COMPLETED A..."
@ 14,52 SAY ZZAINT USING '999'
@ 15,25 SAY (ZZBINT/ZZTOTAL)*100 USING '999'
@ 15,30 SAY "PERCENT COMPLETED B..."
@ 15,52 SAY ZZBINT USING '999'
@ 16,25 SAY (ZZCINT/ZZTOTAL)*100 USING '999'
@ 16,30 SAY "PERCENT COMPLETED C..."
@ 16,52 SAY ZZCINT USING '999'
@ 18,0 SAY "FIRST AID..."
@ 18,20 SAY (ZZAAID/ZZTOTAL)*100 USING '999'
@ 18,24 SAY "PERCENT COMPLETED A..."
@ 18,46 SAY ZZAAID USING '999'
@ 18,50 SAY (ZZBAID/ZZTOTAL)*100 USING '999'
@ 18,54 SAY "PERCENT COMPLETED B..."
@ 18,76 SAY ZZBAID USING '999'
@ 19,20 SAY (ZZCAID/ZZTOTAL)*100 USING '999'
@ 19,24 SAY "PERCENT COMPLETED C..."
@ 19,46 SAY ZZCAID USING '999'
@ 19,50 SAY (ZZDAID/ZZTOTAL)*100 USING '999'
@ 19,54 SAY "PERCENT COMPLETED D..."
@ 19,76 SAY ZZDAID USING '999'
@ 20,20 SAY (ZZEAID/ZZTOTAL)*100 USING '999'
@ 20,24 SAY "PERCENT COMPLETED E..."
@ 20,46 SAY ZZEAID USING '999'
@ 20,50 SAY (ZZFAID/ZZTOTAL)*100 USING '999'
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@ 20,54 SAY "PERCENT CCMPLETED F..."
@ 20,76 SAY ZZFAID USING '999'
@ 21,20 SAY (ZZGAID/ZZTOTAL)*100 USING '999'
@ 21,24 SAY "PERCENT COMPLETED G..."
@ 21,46 SAY ZZGAID USING '999'
@ 21,50 SAY (ZZHAID/ZZTOTAL)*100 USING '999'
@ 21,54 SAY "PERCENT COMPLETED H..."
@ 21,76 SAY ZZHAID USING '999'
@ 22,20 SAY (ZZIAID/ZZTOTAL)*100 USING '999'
@ 22,24 SAY "PERCENT CCMPLETED I..."
@ 22,46 SAY ZZIAID USING '999'
@ 22,50 SAY (ZZJAID/ZZTOTAL)*100 USING '999'
@ 22,54 SAY "PERCENT CCMPLETED J..."
@ 22,76 SAY ZZJAID USING '999'
@ 23,20 SAY (ZZKAID/ZZTOTAL)*100 USING '999'
@ 23,24 SAY "PERCENT COMPLETED K..."
@ 23,46 SAY ZZKAID USING '999'
ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
ERASE
@ 0,25 SAY "TRAINING STATUS REPORT"
@ 2,0 SAY "EQUIPMENT/UNIFORMS..."
@ 2,25 SAY (ZZAUNI/ZZTOTAL)*100 USING '999'
@ 2,30 SAY "PERCENT CCMPLETED A..."
@ 2,52 SAY ZZAUNI USING '999'
@ 3,25 SAY (ZZBUNI/ZZTOTAL)*100 USING '999'
@ 3,30 SAY "PERCENT CCMPLETED E..."
@ 3,52 SAY ZZBUNI USING '999'
@ 4,25 SAY (ZZCUNI/ZZTOTAL)*100 USING '999'
@ 4,3C SAY "PERCENT CCMPLETED C..."
@ 4,52 SAY ZZCUNI USING '999'
@ 6,C SAY "NBC..."
@ 6,25 SAY (ZZANBC/ZZTOTAL)*100 USING '999'
@ 6,30 SAY "PERCENT CCMPLETED A..."
@ 6,52 SAY ZZANBC USING '999'
@ 7,25 SAY (ZZBNEC/ZZTOTAL)*100 USING '999'
@ 7,30 SAY "PERCENT CCMPLETED E..."
@ 7,52 SAY ZZBNBC USING '999'
@ 8,25 SAY (ZZCNBC/ZZTCTAL)*100 USING '999'
@ 8,3C SAY "PERCENT CCMPLETED C..."
@ 8,52 SAY ZZCNBC USING '999'
@ 9,25 SAY (ZZDNBC/ZZTCTAL)*100 USING '999'
@ 9,30 SAY "PERCENT CCMPLETED D..."
@ 9,52 SAY ZZDNBC USING '999'
@ 10,25 SAY (ZZENBC/ZZTOTAL)*100 USING '999'
@ 10,30 SAY "PERCENT CCMPLETED E..."
@ 10,52 SAY ZZENBC USING '999'
@ 11,25 SAY (ZZFNBC/ZZTOTAL)*100 USING '999'
@ 11,30 SAY "PERCENT CCMPLETED F..."
@ 11,52 SAY ZZFNBC USING '999'
@ 13,C SAY "MARKSMANSHIP..."
@ 13,25 SAY (ZZAMKS/ZZTOTAL)*100 USING '999'
@ 13,30 SAY "PERCENT CCMPLETED A..."
@ 13,52 SAY ZZAMKS USING '999'
@ 14,25 SAY (ZZBMKS/ZZTOTAL)*100 USING '999'
@ 14,30 SAY "PERCENT CCMPLETED B..."
@ 14,52 SAY ZZBMKS USING '999'
@ 15,25 SAY (ZZCMKS/ZZTOTAL)*100 USING '999'
@ 15,30 SAY "PERCENT COMPLETED C..."
@ 15,52 SAY ZZCMKS USING '999'
@ 16,25 SAY (ZZDMKS/ZZTOTAL)*100 USING '999'
@ 16,30 SAY "PERCENT COMPLETED D..."
@ 16,52 SAY ZZDMKS USING '999'
@ 17,25 SAY (ZZEMKS/ZZTOTAL)*100 USING '999'
@ 17,30 SAY "PERCENT COMPLETED E..."
@ 17,52 SAY ZZEMKS USING '999'
@ 18,25 SAY (ZZFMKS/ZZTOTAL)*100 USING '999'
@ 18,30 SAY "PERCENT CCMPLETED F..."
@ 18,52 SAY ZZFMKS USING '999'
@ 20,0
```

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```
ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
ERASE
@ 0,25 SAY "TRAINING STATUS REPORT"
@ 2,0 SAY "INDIVID TAC MEASURES..."
@ 2,25 SAY (ZZATAC/ZZTOTAL)*100 USING '999'
@ 2,30 SAY "PERCENT COMPLETED A..."
@ 2,52 SAY ZZATAC USING '999'
@ 3,25 SAY (ZZBTAC/ZZTOTAL)*100 USING '999'
@ 3,30 SAY "PERCENT COMPLETED E..."
@ 3,52 SAY ZZBTAC USING '999'
@ 4,25 SAY (ZZCTAC/ZZTOTAL)*100 USING '999'
@ 4,30 SAY "PERCENT COMPLETED C..."
@ 4,52 SAY ZZCTAC USING '999'
@ 5,25 SAY (ZZDTAC/ZZTOTAL)*100 USING '999'
@ 5,30 SAY "PERCENT COMPLETED D..."
@ 5,52 SAY ZZDTAC USING '999'
@ 6,25 SAY (ZZETAC/ZZTOTAL)*100 USING '999'
@ 6,30 SAY "PERCENT COMPLETED E..."
@ 6,52 SAY ZZETAC USING '999'
@ 8,0 SAY "PFT1..."
@ 8,24 SAY ((ZZTOTAL-ZZPFT1)/ZZTOTAL)*100 USING '999'
@ 8,31 SAY "PERCENT COMPLETED PFT ONE..."
@ 8,62 SAY (ZZTOTAL-ZZPFT1) USING '999'
@ 10,0 SAY "PFT2..."
@ 10,24 SAY ((ZZTOTAL-ZZPFT2)/ZZTOTAL)*100 USING '999'
@ 10,31 SAY "PERCENT COMPLETED PFT TWO..."
@ 10,62 SAY (ZZTOTAL-ZZPFT2) USING '999'
RESTORE FROM ZZTEMP
DO CASE
     CASE !(MUNIT) = 'E'
        USE B:QUAL
        DO CNTQUAL
     CASE !(MUNIT) = 'A'.AND. !(MPLAT) = 'E'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =ONECO .AND.;
        P.SSN=S.SSN) FIELDS  SSN,SWIMQUAL, RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
     CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'A'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON =;
        ONEPLT .AND. P.SSN=S.SSN) FIELDS;
        SSN,SWIMQUAL,RFLQUAL, PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
     CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'B'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON =;
        TWOPLT .AND. P.SSN=S.SSN) FIELDS;
        SSN,SWIMQUAL,RFLQUAL, PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
     CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'C'
        SELECT PRIMARY
```

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```
        USE A:PERS
        SELECT SECONDARY
        USE E:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON =;
        THREEPLT .AND. P.SSN=S.SSN) FIELDS;
        SSN,SWIMQUAL,RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'D'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE E:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON =;
        FOURPLT .AND. P.SSN=S.SSN) FIELDS;
        SSN,SWIMQUAL,RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'E'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE E:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =TWOCO .AND.;
        P.SSN=S.SSN) FIELDS SSN,SWIMQUAL,RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'A'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE E:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =TWOCO .AND. P.PLATOON =;
        ONEPLT .AND. P.SSN=S.SSN) FIELDS;
        SSN,SWIMQUAL,RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'B'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE E:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =TWOCO .AND. P.PLATOON =;
        TWOPLT .AND. P.SSN=S.SSN) FIELDS;
        SSN,SWIMQUAL,RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'C'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE E:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =TWOCO .AND. P.PLATOON =;
        THREEPLT .AND. P.SSN=S.SSN) FIELDS;
        SSN,SWIMQUAL,RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
```

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```
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'D'
     SELECT PRIMARY
     USE A:PERS
     SELECT SECONDARY
     USE B:QUAL
     SELECT PRIMARY
     JOIN TO TEMP FOR (P.COMPANY =TWOCO .AND. P.PLATOON =;
     FOURPLT .AND. P.SSN=S.SSN) FIELDS;
     SSN,SWIMQUAL,RFLQUAL,PSTQUAL
     USE TEMP
     DO CNTQUAL
     DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'D'
     SELECT PRIMARY
     USE A:PERS
     SELECT SECONDARY
     USE B:QUAL
     SELECT PRIMARY
     JOIN TO TEMP FOR (P.COMPANY =THREECO .AND.;
     P.SSN=S.SSN) FIELDS SSN,SWIMQUAL,RFLQUAL,PSTQUAL
     USE TEMP
     DO CNTQUAL
     DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'A'
     SELECT PRIMARY
     USE A:PERS
     SELECT SECONDARY
     USE B:QUAL
     SELECT PRIMARY
     JOIN TO TEMP FOR (P.COMPANY =THREECO .AND. P.PLATOON;
     = ONEPLT .AND. P.SSN=S.SSN) FIELDS;
     SSN,SWIMQUAL,RFLQUAL,PSTQUAL
     USE TEMP
     DO CNTQUAL
     DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'B'
     SELECT PRIMARY
     USE A:PERS
     SELECT SECONDARY
     USE B:QUAL
     SELECT PRIMARY
     JOIN TO TEMP FOR (P.COMPANY =THREECO .AND. P.PLATOON;
     = TWOPLT .AND. P.SSN=S.SSN) FIELDS;
     SSN,SWIMQUAL,RFLQUAL,PSTQUAL
     USE TEMP
     DO CNTQUAL
     DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'C'
     SELECT PRIMARY
     USE A:PERS
     SELECT SECONDARY
     USE B:QUAL
     SELECT PRIMARY
     JOIN TO TEMP FOR (P.COMPANY =THREECO .AND. P.PLATOON;
     = THREEPLT .AND. P.SSN=S.SSN) FIELDS;
     SSN,SWIMQUAL,RFLQUAL,PSTQUAL
     USE TEMP
     DO CNTQUAL
     DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'D'
     SELECT PRIMARY
     USE A:PERS
     SELECT SECONDARY
     USE B:QUAL
     SELECT PRIMARY
     JOIN TO TEMP FOR (P.COMPANY =THREECO .AND. P.PLATOON;
     = FOURPLT .AND. P.SSN=S.SSN) FIELDS;
     SSN,SWIMQUAL,RFLQUAL,PSTQUAL
     USE TEMP
```

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```
        DO CNTQUAL
        DELETE FILE TEMP
    CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'E'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =FOURCO .AND.;
        P.SSN=S.SSN) FIELDS SSN,SWIMQUAL,RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
    CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'A'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =FOURCO .AND. P.PLATOON;
        = ONEPLT .AND. P.SSN=S.SSN) FIELDS;
        SSN,SWIMQUAL,RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
    CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'B'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =FOURCO .AND. P.PLATOON;
        = TWOPLT .AND. P.SSN=S.SSN) FIELDS;
        SSN,SWIMQUAL,RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
    CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'C'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =FOURCO .AND. P.PLATOON;
        = THREEPLT .AND. P.SSN=S.SSN) FIELDS;
        SSN,SWIMQUAL,RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
    CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'D'
        SELECT PRIMARY
        USE A:PERS
        SELECT SECONDARY
        USE B:QUAL
        SELECT PRIMARY
        JOIN TO TEMP FOR (P.COMPANY =FOURCO .AND. P.PLATOON;
        = FOURPLT .AND. P.SSN=S.SSN) FIELDS;
        SSN,SWIMQUAL,RFLQUAL,PSTQUAL
        USE TEMP
        DO CNTQUAL
        DELETE FILE TEMP
ENDCASE
@ 12,0 SAY "SWIMQUAL..."
@ 12,24 SAY ((ZZTOTAL-ZZSWIM)/ZZTOTAL)*100 USING '999'
@ 12,31 SAY "PERCENT SWIM QUALIFIED..."
@ 12,60 SAY (ZZTOTAL-ZZSWIM) USING '999'
@ 14,0 SAY "RIFLE QUAL..."
@ 14,24 SAY ((ZZTOTAL-ZZRFL-ZZNARFL)/ZZTOTAL)*100 USING;
'999'
```

```
@ 14,31 SAY "PERCENT RIFLE QUALIFIED..."
@ 14,60 SAY (ZZTOTAL-ZZRFL-ZZNARFL) USING '999'
@ 16,0 SAY "PISTOL QUAL..."
@ 16,24 SAY ((ZZTOTAI-ZZPST-ZZNAPST)/ZZTOTAL)*100 USING;
'999'
@ 16,31 SAY "PERCENT PISTOL QUALIFIED..."
@ 16,60 SAY (ZZTOTAL-ZZPST-ZZNAPST) USING '999'
@ 20,0
ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
RELEASE ALL LIKE ZZ??????
USE
RETURN
```

E. TRAINING COUNT ROUTINE

```
* ROUTINE NAME: CNTTRNG.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.3.1.0
* AUTHOR: R.E. PRUIETT
* DATE: 6NOV83
* VARIABLES USED: ONECO, TWOCO, THREECO, FOURCO, ONEPLT,
* TWOPLT, THREEPLT, *FOURPLT
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: ZZACOC, ZZBCOC, ZZCCOC, ZZAHIS,
* ZZBHIS, ZZCHIS, ZZACOD, ZZBCOD, ZZCCOD, ZZAINT, ZZBINT,
* ZZCINT, ZZAAID, ZZBAID, ZZCAID, ZZDAID, ZZEAID, ZZFAID,
* ZZGAID, ZZHAID, ZZIAID, ZZJAID, ZZKAID, ZZAUNI, ZZBUNI,
* ZZCUNI, ZZPPT1, ZZPPT2, ZZANBC, ZZBNBC, ZZCNBC, ZZDNBC,
* ZZENBC, ZZFNBC, ZZAMKS, ZZBMKS, ZZCMKS, ZZDMKS, ZZEMKS,
* ZZFMKS, ZZATAC, ZZBTAC, ZZCTAC, ZZDTAC, ZZETAC
* VARIABLES RELEASED: NONE
* FILES OPENED/CLOSED: NONE
* TEMP FILES CREATED: ZZTEMP (SAVES ALL VARIABLES UPON
* ENTERING THIS ROUTINE)
* USING ROUTINES: TRNGSTAT.PRG
* DESCRIPTION: THIS ROUTINE COUNTS THE NUMBER OF ESSENTIAL
* SUBJECT TRAINING ELEMENTS THAT HAVE BEEN COMPLETED.

SAVE TO ZZTEMP
.RELEASE ALL
COUNT TO ZZTOTAL
COUNT FOR 'A'$(COC)  TO ZZACOC
COUNT FOR 'B'$(COC)  TO ZZBCOC
COUNT FOR 'C'$(COC)  TO ZZCCOC
COUNT FOR 'A'$(HIS)  TO ZZAHIS
COUNT FOR 'B'$(HIS)  TO ZZBHIS
COUNT FOR 'C'$(HIS)  TO ZZCHIS
COUNT FOR 'A'$(COD)  TO ZZACOD
COUNT FOR 'B'$(COD)  TO ZZBCOD
COUNT FOR 'C'$(COD)  TO ZZCCOD
COUNT FOR 'A'$(INT)  TO ZZAINT
COUNT FOR 'B'$(INT) .TO ZZBINT
COUNT FCR 'C'$(INT)  TO ZZCINT
COUNT FOR 'A'$(AID)  TO ZZAAID
COUNT FOR 'B'$(AID)  TO ZZBAID
COUNT FOR 'C'$(AID)  TO ZZCAID
COUNT FOR 'D'$(AID)  TO ZZDAID
COUNT FOR 'E'$(AID)  TO ZZEAID
COUNT FOR 'F'$(AID)  TO ZZFAID
COUNT FOR 'G'$(AID)  TO ZZGAID
COUNT FOR 'H'$(AID)  TO ZZHAID
COUNT FOR 'I'$(AID)  TO ZZIAID
COUNT FOR 'J'$(AID)  TO ZZJAID
COUNT FOR 'K'$(AID)  TO ZZKAID
COUNT FOR 'A'$(UNI)  TO ZZAUNI
COUNT FOR 'B'$(UNI)  TO ZZBUNI
COUNT FOR 'C'$(UNI)  TO ZZCUNI
COUNT FOR 'A'$(NBC)  TO ZZANBC
COUNT FOR 'B'$(NBC)  TO ZZBNBC
COUNT FOR 'C'$(NBC)  TO ZZCNBC
COUNT FOR 'D'$(NBC)  TO ZZDNBC
COUNT FOR 'E'$(NBC)  TO ZZENBC
COUNT FOR 'F'$(NBC)  TO ZZFNBC
COUNT FOR 'A'$(MKS)  TO ZZAMKS
COUNT FOR 'B'$(MKS)  TO ZZBMKS
COUNT FOR 'C'$(MKS)  TO ZZCMKS
COUNT FOR 'D'$(MKS)  TO ZZDMKS
COUNT FOR 'E'$(MKS)  TO ZZEMKS
COUNT FOR 'F'$(MKS)  TO ZZFMKS
COUNT FOR 'A'$(TAC)  TO ZZATAC
COUNT FOR 'B'$(TAC)  TO ZZBTAC
```

```
COUNT FOR 'C'$(TAC)  IC ZZCTAC
COUNT FOR 'D'$(TAC)  IC ZZDTAC
COUNT FOR 'E'$(TAC)  IC ZZETAC
COUNT FOR '*'$(PFT1CISS) TO ZZFT1
COUNT FOR '*'$(PFT2CISS) TO ZZPFT2
RETURN
```

F. QUALIFICATION COUNT ROUTINE

```
* ROUTINE NAME: CNTQUAL.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION:5.3.2.0
* AUTHOR: R.E. PRUIETT
* DATE: 08DEC83
* VARIABLES USED: NONE
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: ZZSWIM, ZZRFL, ZZNARFL, ZZPST, ZZNAPST
* VARIABLES RELEASED: NONE
* FILES OPENED/CLOSED: NONE
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: TRNGSTAT.PRG
* DESCRIPTION: THIS ROUTINE FIRST SAVES ALL MEMORY
* VARIABLES IN A MEMORY FILE (ZZTOTAL) AND THEN COUNTS THE
* NUMBER OF PERSONS THAT HAVE NOT COMPLETED SWIMQUAL,
* RFLQUAL, PSTQUAL AND THOSE PERSONS NOT REQUIRED TO
* QUALIFY WITH THE RIFLE OR PISTOL (NA).
*
COUNT TO ZZTOTAL
COUNT FOR '**' $(SWIMQUAL) TO ZZSWIM
COUNT FOR '**' $(RFLQUAL) TO ZZRFL
COUNT FOR 'NA' $(RFLQUAL) TO ZZNARFL
COUNT FOR '**' $(PSTQUAL) TO ZZPST
COUNT FOR 'NA' $(PSTQUAL) TO ZZNAPST
RETURN
```

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G. TRAINING ROSTER ROUTINE

```
* ROUTINE NAME: TRNGRCST.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.4.0
* AUTHOR: R. E. PRUIETT
* DATE: 20DEC83
* VARIABLES USED: MUNIT, MPLAT, ONECO, TWOCO, THREECO,
* FOURCO, ONEPLT, TWOPLT, THREEPLT, FOURPLT
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: COUNT, PROCEED
* VARIABLES RELEASED: NONE
* FILES (OPENED/CLOSED): A:PERS INDEX A:ALPHPERS (ALL FILES
* CLOSED)
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: STDRPT.PRG (5.0)
* DESCRIPTION: THIS ROUTINE PROVIDES THE "TRAINING ROSTER
* REPORT".  IT STARTS AT THE TOP OF THE PERS.DBF AND LOOKS
* AT EACH RECORD INDIVIDUALLY.  IF A RECORD CORRESPONDS TO
* THE UNIT SELECTED BY THE USER, THE ROUTINE TRNGRPT.PRG IS
* CALLED WHICH COLLECTS AND DISPLAYS THE TRAINING DATA THAT
* CORRESPONDS TO THE CURRENT PERS.DBF RECORD (E.G., IF THE
* USER WANTS TRAINING DATA ON EVERY MEMBER OF 1ST PLAT, A
* CO, TRNGRCST.PRG LOCATES EACH RECORD IN THE PERS.DBF
* WHICH BELONG TO 1ST PLAT, A CO.  TRNGRPT.PRG THEN
* DISPLAYS THE TRAINING DATA FROM THE APPROPRIATE DATABASE
* FILES.).  INFORMATION ON ONE INDIVIDUAL IS DISPLAYED IN
* SIX ROWS AND FOUR SETS OF DATA ARE DISPLAYED PER SCREEN.
* THE USER PRESS'S THE ENTER KEY TO SCROLL FORWARD TO EACH
* SUCCEEDING SET OF INDIVIDUAL DATA.

ERASE
@ 12,28 SAY "TRAINING ROSTER REPORT"
@ 22,0
ACCEPT "PRESS 'ENTER' KEY TO CONTINUE" TO PROCEED
ERASE
SELECT PRIMARY
USE A:PERS INDEX A:ALPHPERS
GOTO TOP
STORE 0 TO COUNT
DO WHILE .NOT. EOF
DO CASE
    CASE !(MUNIT) = 'E'
        DO TRNGRPT
        STORE COUNT + 1 TO COUNT
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'E'
        IF COMPANY = ONECO
            DO TRNGRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'A'
        IF COMPANY = ONECO .AND. PLATOON = ONEPLT
            DO TRNGRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'B'
        IF COMPANY = ONECO .AND. PLATOON = TWOPLT
            DO TRNGRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'C'
        IF COMPANY = ONECO .AND. PLATOON = THREEPLT
            DO TRNGRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'D'
        IF COMPANY = ONECO .AND. PLATOON = FOURPLT
            DO TRNGRPT
```

```
                  STCRE CCUNT + 1 TO CCUNT
               ENDIF
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'E'
     IF COMPANY = TWCCO
        DO TRNGRPT
        STORE COUNT + 1 TO COUNT
        ENDIF
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'A'
     IF CCMPANY = TWCCO .AND. PLATOON = ONEPLT
        DO TRNGRPT
        STCRE CCUNT + 1 TO CCUNT
        ENDIF
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'B'
     IF COMPANY = TWOCO .AND. PLATOON = TWOPLT
        DC TRNGRPT
        STORE CCUNT + 1 TO COUNT
        ENDIF
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'C'
     IF COMPANY = TWCCO .AND. PLATOON = THREEPLT
        DO TRNGRPT
        STCRE CCUNT + 1 TO CCUNT
        ENDIF
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'D'
     IF COMPANY = TWCCO .AND. PLATOON = FOURPLT
        DO TRNGRPT
        STORE CCUNT + 1 TO COUNT
        ENDIF
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'E'
     IF COMPANY = THREECO
        DO TRNGRPT
        STCRE CCUNT + 1 TO CCUNT
        ENDIF
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'A'
     IF COMPANY = THREECO .AND. PLATOON = ONEPLT
        DO TRNGRPT
        STORE COUNT + 1 TO COUNT
        ENDIF
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'B'
     IF COMPANY = THREECO .AND. PLATOON = TWOPLT
        DO TRNGRPT
        STCRE CCUNT + 1 TO CCUNT
        ENDIF
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'C'
     IF COMPANY = THREECO .AND. PLATOON = THREEPLT
        DO TRNGRPT
        STORE COUNT + 1 TO COUNT
        ENDIF
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'D'
     IF CCMPANY = THREECO .AND. PLATOON = FOURPLT
        DO TRNGRPT
        STCRE CCUNT + 1 TO CCUNT
        ENDIF
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'E'
     IF COMPANY = FCURCO
        DO TRNGRPT
        STCRE CCUNT + 1 TO COUNT
        ENDIF
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'A'
     IF COMPANY = FCURCO .AND. PLATOON = ONEPLT
        DO TRNGRPT
        STORE CCUNT + 1 TO CCUNT
        ENDIF
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'B'
     IF CCMPANY = FCURCO .AND. PLATOON = TWOPLT
     DO TRNGRPT
     STCRE COUNT + 1 TO COUNT
     ENDIF
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'C'
     IF CCMPANY = FCURCO .AND. PLATOON = THREEPLT
```

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```
            DO TRNGRPT
            STORE CCUNT + 1 TO CCUNT
            ENDIF
     CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'D'
        IF COMPANY = FCURCO .AND. PLATOON = FOURPLT
            DO TRNGRPT
            STORE CCUNT + 1 TO COUNT
            ENDIF
ENDCASE
IF CCUNT = 4
    @ 22,0
    ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
    STORE 0 TO COUNT
    ERASE
ENDIF
SELECT PRIMARY
SKIP
ENDDO
RELEASE COUNT,PROCEED,MSSN
USE
RETURN
```

H. TRAINING ROSTER FORMAT ROUTINE

```
* ROUTINE NAME:
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.4.1.0
* AUTHOR: R.E. PRUIETT
* DATE: 15DEC83
* VARIABLES USED: COUNT, PLATNAME, UNITNAME, MPLAT, MUNIT
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: ROW, MSSN
* VARIABLES RELEASED: NONE * FILES OPENED/CLOSED: B:QUAL
* INDEX B:QUALSSN, B:EST INDEX B:ESTSSN
* TEMP FILES CREATED:
* USING SUBROUTINES: TRNGROST.PRG
* DESCRIPTION: THIS ROUTINE PROVIDES THE FORMAT AND
* DISPLAYS THE "TRAINING ROSTER REPORT".

STORE (COUNT * 6) TO ROW
@ ROW,0 SAY NAME
@ ROW,30 SAY RANK
@ ROW,33 SAY COMPANY
STORE SSN TO MSSN
SELECT SECONDARY
USE B:QUAL INDEX B:QUALSSN
FIND &MSSN
@ ROW,39 SAY "SWIM QUAL "
@ ROW,49 SAY SWIMQUAL
@ ROW,52 SAY "RIFLE QUAL "
@ ROW,63 SAY RFLQUAL
@ ROW,66 SAY "PISTOL QUAL "
@ ROW,78 SAY PSTQUAL
SELECT SECONDARY
USE B:EST INDEX B:ESTSSN
FIND &MSSN
@ ROW + 1,0 SAY "CODE OF CONDUCT "
@ ROW + 1,16 SAY COC
@ ROW + 1,22 SAY "MARCOR HIS "
@ ROW + 1,35 SAY HIS
@ ROW + 1,43 SAY "MARKSMANSHIP "
@ ROW + 1,56 SAY MKS
@ ROW + 1,67 SAY "DRILL "
@ ROW + 1,74 SAY COD
@ ROW + 2,0 SAY "INTERIOR GUARD "
@ ROW + 2,16 SAY INT
@ ROW + 2,22 SAY "MARKSMANSHIP "
@ ROW + 2,35 SAY MKS
@ ROW + 2,43 SAY "TAC MEASURES "
@ ROW + 2,56 SAY TAC
@ ROW + 2,67 SAY "NBC "
@ ROW + 2,74 SAY NBC
@ ROW + 3,0 SAY "PFT1 "
@ ROW + 3,6 SAY PFT1CISS
@ ROW + 3,10 SAY "PFT2 "
@ ROW + 3,16 SAY PFT2CLSS
@ ROW + 3,22 SAY "EQUIP/UNIFORM "
@ ROW + 3,36 SAY UNI
@ ROW + 3,43 SAY "FIRST AID "
@ ROW + 3,54 SAY AID
RETURN
```

I. MARKSMANSHIP STATUS ROUTINE

```
* ROUTINE NAME: MKSSTAT.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.6.0
* AUTHOR: R.E. PRUIETT
* DATE: 28NOV83
* VARIABLES USED:UNITNAME,PLATNAME
* VARIABLES MODIFIED:NO GLOBAL VARIABLES MODIFIED
* VARIABLES CREATED: RFLEX, RFLSS, RFLMM, RFLUN, PSTEX,
* PSTSS, PSTMM, PSTUN, RFLSHOT, PCTEX, PCTSS, PCTMM, PCTUN,
* PCTEXPST, PCTSSPST, PCTMMPST, PCTUNPST, PROCEED, ANALYZE6
* VARIABLES RELEASED: PST?????, PCT?????, RFLEX, RFLSS,
* RFLMM, RFLUN, PROCEED, ANALYZE6
* FILES (OPENED/CLOSED):ALL CLOSED
* TEMP FILES CREATED:MRKSTEMP,MKSTEMP
* USING SUBROUTINES:STDRPT.PRG
* DESCRIPTION:THIS ROUTINE CREATES A TEMPORARY FILE WHICH
* CONTAINS THE CURRENT YEAR RIFLE AND PISTOL QUALIFICATION
* RESULTS FOR EACH MEMBER IN THE SELECTED COMPANY AND/OR
* PLATOON.  THE RESULTS ARE TOTALED BY QUALIFICATION
* CATEGORY FOR THE RIFLE AND PISTOL.  PERCENTAGES ARE
* CALCULATED AND DISPLAYED IN A SUMMARY STATUS REPORT WHICH
* IS AUTOMATICALLY DISPLAYED ON THE SCREEN.
ERASE
DO CVRTUNIT
DO CASE
    CASE !(MUNIT)='E'
        USE B:QUAL
    CASE !(MUNIT)<>'E' .AND. !(MPLAT)='E'
        USE A:PERS
        COPY TO MRKSTEMP ALL FIELD SSN FOR COMPANY=UNITNAME
        USE MRKSTEMP
        SELECT SECONDARY
        USE B:QUAL
        SELECT PRIMARY
        JOIN TO MKSTEMP FOR P.SSN = S.SSN FIELDS RFLQUAL,;
        PSTQUAL
        USE MKSTEMP
    CASE !(MUNIT)<>'E' .AND !(MPLAT)<>'E'
        USE A:PERS
        COPY TO MRKSTEMP ALL FIELD SSN FOR COMPANY=UNITNAME;
        .AND. PLATOON = PLATNAME
        USE MRKSTEMP
        SELECT SECONDARY
        USE B:QUAL
        SELECT PRIMARY
        JOIN TO MKSTEMP FOR P.SSN = S.SSN FIELDS RFLQUAL,;
        PSTQUAL
        USE MKSTEMP
ENDCASE
COUNT FOR RFLQUAL = 'EX' TO RFLEX
COUNT FOR RFLQUAL = 'SS' TO RFLSS
COUNT FOR RFLQUAL = 'MM' TO RFLMM
COUNT FOR RFLQUAL = 'UN' TO RFLUN
COUNT FOR PSTQUAL = 'EX' TO PSTEX
COUNT FOR PSTQUAL = 'SS' TO PSTSS
COUNT FOR PSTQUAL = 'MM' TO PSTMM
COUNT FOR PSTQUAL = 'UN' TO PSTUN
ERASE
STORE (RFLEX+RFLSS+RFLMM+RFLUN) TO RFLSHOT
IF RFLSHOT > 0
   STORE (RFLEX/RFLSHOT*100) TO PCTEX
   STORE (RFLSS/RFLSHOT*100) TO PCTSS
   STORE (RFLMM/RFLSHOT*100) TO PCTMM
   STORE (RFLUN/RFLSHOT*100) TO PCTUN
ENDIF
STORE (PSTEX+PSTSS+PSTMM+PSTUN) TO PSTSHOT
```

```
IF PSTSHCT > 0
   STORE (ESTEX/PSTSHCT*100)  TO PCTEXPST
   STORE (PSTSS/PSTSHCT*100)  TO PCTSSPST
   STORE (PSTMM/PSTSHCT*100)  TO PCTMMPST
   STORE (PSTUN/PSTSHCT*100)  TO PCTUNPST
ENDIF
@ 1,30 SAY "MARKSMANSHIP STATUS REPORT"
@ 3,1 SAY "RIFLE EXPERTS..........."
@ 3,23 SAY RFLEX
@ 3,39 SAY "PISTOL EXPERTS..........."
@ 3,63 SAY PSTEX
@ 5,1 SAY "RIFLE SHARPSHOOTERS...."
@ 5,23 SAY RFLSS
@ 5,39 SAY "PISTOL SHARPSHOOTERS...."
@ 5,63 SAY PSTSS
@ 7,1 SAY "RIFLE MARKSMEN........."
@ 7,23 SAY RFLMM
@ 7,39 SAY "PISTOL MARKSMEN........."
@ 7,63 SAY PSTMM
@ 9,1 SAY "UNQUALIFIED............"
@ 9,23 SAY RFLUN
@ 9,39 SAY "UNQUALIFIED............."
@ 9,63 SAY PSTUN
@ 11,1 SAY "TOTAL ................."
@ 11,23 SAY RFLSHOT
@ 11,39 SAY "TOTAL..................."
@ 11,63 SAY PSTSHOT
@ 15,34 SAY "PERCENTAGES"
@ 16,34 SAY "-----------"
IF RFLSHCT > 0
   @ 18,1 SAY "RIFLE EXPERTS............"
   @ 18,23 SAY PCTEX
   @ 19,1 SAY "RIFLE SHARPSHOOTERS......"
   @ 19,23 SAY PCTSS
   @ 20,1 SAY "RIFLE MARKSMEN..........."
   @ 20,23 SAY PCTMM
   @ 21,1 SAY "UNQUALIFIED.............."
   @ 21,23 SAY PCTUN
ELSE
   @ 18,1 SAY "NO UNIT MEMBERS HAVE FIRED THE "
   @ 20,1 SAY "RIFLE FOR QUALIFICATION THIS YEAR."
ENDIF
IF PSTSHCT > 0
   @ 18,39 SAY "PISTOL EXPERTS........."
   @ 18,63 SAY PCTEXPST
   @ 19,39 SAY "PISTOL SHARPSHOOTERS..."
   @ 19,63 SAY PCTSSPST
   @ 20,39 SAY "PISTOL MARKSMEN........"
   @ 20,63 SAY PCTMMPST
   @ 21,39 SAY "UNQUALIFIED............"
   @ 21,63 SAY PCTUNPST
ELSE
   @ 18,39 SAY "NO UNIT MEMBERS HAVE FIRED THE"
   @ 20,39 SAY "PISTOL FOR QUALIFICATION THIS YEAR"
ENDIF
@ 22,0
ACCEPT "PRESS 'ENTER' KEY TO CONTINUE" TO PROCEED
RELEASE ALL LIKE PST?????
RELEASE ALL LIKE PCT?????
ERASE
ACCEPT "DO YOU WANT TO DO A COMPANY/BATTALION RANGE QUOTA;
ANALYSIS? (Y/N) " TO ANALYZE6
IF !(ANALYZE6) = 'Y'
   DO E:QTASTUDY
ENDIF
RELEASE RFLEX,RFLSS,RFLMM,RFLUN,RFLS,PROCEED,ANALYZE6
USE
RETURN
```

J. CONVERT UNIT ROUTINE

```
* ROUTINE NAME: CVRTUNIT.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.6.1.0
* AUTHOR: R.E. PRUIETT
* DATE: 28NOV83
* VARIABLES USED: MUNIT, MPLAT, ONECO, TWOCO, THREECO,
* FOURCO, ONEPLT, TWOPLT, THREEPLT, FOURPLT
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: UNITNAME, PLATNAME
* VARIABLES RELEASED: NONE
* FILES (OPENED/CLOSED): NONE
* TEMP FILES CREATED:NONE
* USING SUBROUTINES: MKSSTAT.PRG (5.6.0) AND MOSSTAT.PRG
* (5.6.0)
* DESCRIPTION: THIS ROUTINE STORES THE NAME OF THE COMPANY
* AND PLATOON SELECTED BY THE USER DURING ROUTINE
* SLCTUNIT'.   IT IS NECESSARY BECAUSE WHEN THE USER
* SELECTS A UNIT AND SUBUNIT IT IS DONE BY MENU SELECTION.
* ACCORDINGLY THE ONLY THING STORED INTO MEMORY IS THE
* CORRESPONDING LETTER FROM THE MENU PROVIDED BY THE
* SLCTUNIT.PRG (A, B, C, D, E).   SOME SCREEN DISPLAYS
* REQUIRE THE UNIT NAME ( E.G.; "A CO" VICE "A" ) SO A
* CONVERSION IS NECESSARY.

DO CASE
    CASE !(MUNIT)='A'
        STORE ONECO TO UNITNAME
    CASE !(MUNIT)='B'
        STORE TWOCO TO UNITNAME
    CASE !(MUNIT)='C'
        STORE THREECO TO UNITNAME
    CASE !(MUNIT)='D'
        STORE FOURCO TO UNITNAME
ENDCASE
IF !(MUNIT) <> 'E'
DO CASE
    CASE !(MPLAT)='A'
        STORE ONEPLT TO PLATNAME
    CASE !(MPLAT)='B'
        STORE TWOPLT TO PLATNAME
    CASE !(MPLAT)='C'
        STORE THREEPLT TO PLATNAME
    CASE !(MPLAT)='D'
        STORE FOURPLT TO PLATNAME
ENDCASE
ENDIF
RETURN
```

K. QUOTA STUDY ROUTINE

```
* ROUTINE NAME: QTASTUDY.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.6.2.0
* AUTHOR: R.E. PRUIETT
* DATE: 15DEC83
* VARIABLES USED: UNITNAME, PLATNAME, RFLSHOT, RFLEX,
* RFLSS, RFLMM, RFLUN, MUNIT, QFEB, QMAR,
* ...,QDEC
* VARIABLES MODIFIED: NO GLOBAL VARIABLES MODIFIED
* VARIABLES CREATED: RFLNA, MONTH, TOTALREC, MLEFT, MSUM,
* NEEDED, EXTRA, WHATIF
* VARIABLES RELEASED: MONTH, WHATIF, EXTRA, NEEDED, MSUM,
* MLEFT, TOTALREC, RFLNA, Q???
* FILES (OPENED/CLOSED): NONE
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: MKSSTAT.PRG
* DESCRIPTION: THIS MODULE IS USED BY MKSSTAT.PRG AND
* DISPLAYS THE RANGE QUOTAS THAT REMAIN FOR THE CURRENT
* YEAR.  THE CURRENT MONTH IS EXTRACTED FROM THE 'LOG ON
* DATE' AND THE RANGE QUOTAS FOR EACH UNIT IS STORED IN A
* MEMORY FILE DURING THE ANNUAL INITIALIZATION PROCEDURE.
* SUMMARY INFORMATION IS PROVIDED CONCERNING THE RELATION-
* SHIP BETWEEN REMAINING RANGE QUOTA REQUIREMENTS AND
* REMAINING RANGE QUOTA ALLOCATIONS.  UPON CONCLUSSION OF
* THE MODULE THE USER MAY RETURN TO THE STANDARD REPORT
* MENU OR TO A SCRATCH PAD TO REVISE QUOTA ASSIGNMENTS.
* REVISED QUOTA ASSIGNMENTS FROM THE SCRATCH PAD CAN EITHER
* BE SAVED OR IGNORED.

ERASE
DO CASE
    CASE !(MUNIT) <> 'B' .AND. !(MPLAT) = 'B'
        @ 1,15 SAY "RANGE QUOTA ANALYSIS FOR "
        @ 1,40 SAY UNITNAME
    CASE !(MUNIT) <> 'B' .AND. !(MPLAT) <> 'B'
        @ 1,15 SAY "RANGE QUOTA ANALYSIS FOR "
        @ 1,40 SAY UNITNAME
        @ 1,46 SAY ","
        @ 1,48 SAY PLATNAME
    CASE !(MUNIT) = 'B'
        @ 1,15 SAY "RANGE QUOTA ANALYSIS FOR BATTALION"
ENDCASE
COUNT FOR RFLQUAL = 'NA' TO RFLNA
STORE $(AADATE,3,2) TO MONTH
GOTO BOTTOM
STORE # TO TOTALREC
@ 4,1 SAY "NUMBER OF MARINES FIRED FOR QUALIFICATION;
DURING"
@ 5,1 SAY "CURRENT;
YEAR................................"
@ 5,50 SAY RFLSHOT
@ 6,1 SAY "NUMBER OF MARINES FIRED FOR QUALIFICATION;
DURING"
@ 7,1 SAY "CURRENT YEAR BUT DID NOT;
QUALIFY................"
@ 7,50 SAY RFLUN
@ 8,1 SAY "NUMBER OF MARINES NOT REQUIRED TO QUALIFY;
DURING"
@ 9,1 SAY "CURRENT;
YEAR................................"
@ 9,50 SAY RFLNA
STORE (TOTALREC - RFLNA - RFLEX -RFLSS - RFLMM) TO MLEFT
@ 10,1 SAY "MARINES LEFT TO QUALIFY DURING CURRENT;
YEAR....."
@ 10,50 SAY MLEFT
DO CASE
```

```
      CASE !(MUNIT) = 'A'
         RESTORE FROM A:ARNGQTAS ADDITIVE
      CASE !(MUNIT) = 'E'
         RESTORE FROM A:ERNGQTAS ADDITIVE
      CASE !(MUNIT) = 'C'
         RESTORE FROM A:CRNGQTAS ADDITIVE
      CASE !(MUNIT) = 'L'
         RESTCRE FROM A:LRNGQTAS ADDITIVE
      CASE !(MUNIT) = 'E'
         RESTORE FROM A:ENRNGQTA ADDITIVE
   ENDCASE
   LO CASE
      CASE MCNTH ='01'
         @ 12,4 SAY "FEB    MAR    APR    MAY    JUN    JUL    AUG;
         SEF    OCT    NCV    LEC"
         @ 14,4 SAY STR(QFEB,3)
         @ 14,10 SAY  STR(QMAR,3)
         @ 14,16 SAY  STR(QAPR,3)
         @ 14,22 SAY STR(QMAY,3)
         @ 14,28 SAY STR(QJUN,3)
         @ 14,34 SAY STR(QJUL,3)
         @ 14,40 SAY STR(QAUG,3)
         @ 14,46 SAY STR(QSEP,3)
         @ 14,52 SAY STR(QCCT,3)
         @ 14,58 SAY STR(QNCV,3)
         @ 14,64 SAY STR(QDEC,3)
         STCRE (QFEB+ QMAR+ QAPR+ QMAY+ QJUN+ QJUL+ QAUG+ QSEP+;
         QCCT+ QNCV+ QDEC) TO MSUM
         @ 16,4 SAY "A TOTAL OF "
         @ 16,15 SAY STR(MSUM,3)
         @ 16,19 SAY "QUOTAS REMAIN FCR THE CURRENT YEAR."
      CASE MCNTE ='02'
         @ 12,4 SAY "MAR    APR    LAY    JUN    JUL    AUG    SEP;
         OCT    NOV    DEC"
         @ 14,4 SAY  STR(QMAR,3)
         @ 14,10 SAY  STR(QAPR,3)
         @ 14,16 SAY STR(QLAY,3)
         @ 14,22 SAY STR(QJUN,3)
         @ 14,28 SAY STR(QJUL,3)
         @ 14,34 SAY STR(QAUG,3)
         @ 14,40 SAY STR(QSEP,3)
         @ 14,46 SAY STR(QCCT,3)
         @ 14,52 SAY STR(QNCV,3)
         @ 14,58 SAY STR(QDEC,3)
         STCRE (QMAR+ QAPR+ QMAY+ QJUN+ QJUL+ QAUG+ QSEP+ QOCT+;
         QNCV+ QDEC) TO MSUM
         @ 16,4 SAY "A TOTAL OF "
         @ 16,15 SAY STR(MSUM,3)
         @ 16,19 SAY "QUOTAS REMAIN FCR THE CURRENT YEAR."
      CASE MCNTE ='03'
         @ 12,4 SAY "APR    LAY    JUN    JUL    AUG    SEP    OCT;
         NCV    DEC"
         @ 14,4 SAY STR(QAPR,3)
         @ 14,10 SAY STR(QMAY,3)
         @ 14,16 SAY STR(QJUN,3)
         @ 14,22 SAY STR(QJUL,3)
         @ 14,28 SAY STR(QAUG,3)
         @ 14,34 SAY STR(QSEP,3)
         @ 14,40 SAY STR(QCCT,3)
         @ 14,46 SAY STR(QNCV,3)
         @ 14,52 SAY STR(QDEC,3)
         STCRE (QAPR+QMAY+QJUN+QJUL+QAUG+QSEP+QOCT+QNOV+QDEC) ;
         TO MSUM
         @ 16,4 SAY "A TOTAL OF "
         @ 16,15 SAY STR(MSUM,3)
         @ 16,19 SAY "QUOTAS REMAIN FCR THE CURRENT YEAR."
      CASE MCNTE ='04'
         @ 12,4 SAY "MAY    JUN    JUL    AUG    SEP    OCT    NOV;
         DEC"
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        @ 14,4 SAY STR(QMAY,3)
        @ 14,10 SAY STR(QJUN,3)
        @ 14,16 SAY STR(QJUL,3)
        @ 14,22 SAY STR(QAUG,3)
        @ 14,28 SAY STR(QSEP,3)
        @ 14,34 SAY STR(QCCT,3)
        @ 14,40 SAY STR(QNCV,3)
        @ 14,48 SAY STR(QDEC,3)
        STCRE (QMAY+QJUN+QJUL+QAUG+QSEP+QOCT+QNOV+QDEC) TO MSUM
        @ 16,4 SAY "A TOTAL OF "
        @ 16,15 SAY STR(MSUM,3)
        @ 16,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."
CASE MCNTH ='05'
        @ 12,4 SAY "JUN    JUL    AUG    SEP    OCT    NOV    DEC"
        @ 14,4 SAY STR(QJUN,3)
        @ 14,10 SAY STR(QJUL,3)
        @ 14,16 SAY STR(QAUG,3)
        @ 14,22 SAY STR(QSEP,3)
        @ 14,28 SAY STR(QCCT,3)
        @ 14,34 SAY STR(QNCV,3)
        @ 14,40 SAY STR(QDEC,3)
        STCRE (QJUN+QJUL+QAUG+QSEP+QOCT+QNOV+QDEC) TO MSUM
        @ 16,4 SAY "A TOTAL OF "
        @ 16,15 SAY STR(MSUM,3)
        @ 16,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."
CASE MCNTH ='06'
        @ 12,4 SAY "JUL    AUG    SEP    OCT    NOV    DEC"
        @ 14,4 SAY STR(QJUL,3)
        @ 14,10 SAY STR(QAUG,3)
        @ 14,16 SAY STR(QSEP,3)
        @ 14,22 SAY STR(QOCT,3)
        @ 14,28 SAY STR(QNCV,3)
        @ 14,34 SAY STR(QDEC,3)
        STCRE (QJUL+QAUG+QSEP+QOCT+QNOV+QDEC) TO MSUM
        @ 16,4 SAY "A TOTAL OF "
        @ 16,15 SAY STR(MSUM,3)
        @ 16,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."
CASE MCNTH ='07'
        @ 12,4 SAY "AUG    SEP    OCT    NOV    DEC"
        @ 14,4 SAY STR(QAUG,3)
        @ 14,10 SAY STR(QSEP,3)
        @ 14,16 SAY STR(QCCT,3)
        @ 14,22 SAY STR(QNOV,3)
        @ 14,28 SAY STR(QDEC,3)
        STCRE (QAUG+QSEP+QCCT+QNOV+QDEC) TO MSUM
        @ 16,4 SAY "A TOTAL OF "
        @ 16,15 SAY STR(MSUM,3)
        @ 16,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."
CASE MCNTH ='08'
        @ 12,4 SAY "SEP    CCT    NOV    DEC"
        @ 14,4 SAY STR(QSEP,3)
        @ 14,10 SAY STR(QCCT,3)
        @ 14,16 SAY STR(QNCV,3)
        @ 14,22 SAY STR(QDEC,3)
        STCRE (QSEP+QOCT+QNOV+QDEC) TO MSUM
        @ 16,4 SAY "A TOTAL OF "
        @ 16,15 SAY STR(MSUM,3)
        @ 16,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."
CASE MCNTH ='09'
        @ 12,4 SAY "OCT    NOV    DEC"
        @ 14,4 SAY STR(QOCT,3)
        @ 14,10 SAY STR(QNCV,3)
        @ 14,16 SAY STR(QDEC,3)
        STCRE (QCCT+QNOV+QDEC) TC MSUM
        @ 16,4 SAY "A TOTAL OF "
        @ 16,15 SAY STR(MSUM,3)
        @ 16,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."
CASE MCNTH ='10'
        @ 12,4 SAY "NOV    DEC"
```

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        @ 14,4 SAY STR(QNOV,3)
        @ 14,10 SAY STR(QDEC,3)
        STORE (QNOV+QDEC) TO MSUM
        @ 16,4 SAY "A TOTAL OF "
        @ 16,15 SAY STR(MSUM,3)
        @ 16,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."
    CASE MONTH ='11'
        @ 12,4 SAY "DEC"
        @ 14,4 SAY STR(QDEC,3)
        STORE (QDEC) TO MSUM
        @ 16,4 SAY "A TOTAL OF "
        @ 16,15 SAY STR(MSUM,3)
        @ 16,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."
    CASE MONTH ='12'
        @ 14,10 SAY "THIS IS THE LAST MONTH IN CALENDAR YEAR"
ENDCASE
DO CASE
    CASE (MSUM = MLEFT)
        @ 18,4 SAY "REMAINING QUOTAS EQUAL NUMBER OF MARINES;
        LEFT TO QUALIFY.."
        @ 18,64 SAY STR(MSUM,3)
    CASE (MLEFT > MSUM)
        @ 18,4 SAY "YOU NEED "
        STORE (MLEFT - MSUM) TO NEEDED
        @ 18,13 SAY STR(NEEDED,3)
        @ 18,19 SAY "MORE QUOTAS FOR THE YEAR."
    CASE (MSUM > MLEFT)
        @ 18,4 SAY "YOU HAVE "
        STORE (MSUM - MLEFT) TO EXTRA
        @ 18,13 SAY STR(EXTRA,3)
        @ 18,18 SAY "EXTRA QUOTAS."
ENDCASE
@ 19,1 SAY "SELECT ONE"
@ 20,1 SAY "A...CHANGE QUOTAS ON SCRATCH PAD"
@ 21,1 SAY "B...RETURN TO STANDARD REPORT MENU"
@ 22,0
ACCEPT "SELECT OPTION ===> " TO WHATIF
IF !(WHATIF) = 'A'
    DO B:QUOTAPAD
ENDIF
RELEASE MONTH,WHATIF,EXTRA,NEEDED,MSUM,MLEFT,TOTALREC,RELNA
RELEASE ALL LIKE Q???
RETURN
```

I.   QUOTA SCRATCH PAD ROUTINE

```
* ROUTINE NAME:  QUOTAPAD.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.6.2.1.0
* AUTHOR: R.E. PRUIETT
* DATE: 5DEC83
* VARIABLES USED: MLEFT, MUNIT
* VARIABLES MODIFIED:
* VARIABLES CREATED: PICKMNTH, TEMPSUM, WHICHWAY, CONTINUE,
* QFEB...QDEC, EXTRA
* VARIABLES RELEASED: Q???, MLEFT, TEMPSUM, WHICHWAY,
* PICKMNTH, CONTINUE, EXTRA
* FILES (OPENED/CLOSED): NONE
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: QTASTUDY.PRG
* DESCRIPTION: THIS MODULE GIVES THE USER AN OPPORTUNITY TO
* INTER-ACTIVELY MODIFY THE REMAINING MONTHLY RANGE
* QUOTAS.  THIS CAN BE DONE AN UNLIMITED NUMBER OF TIMES
* EACH TIME RETURNING TO THE ACTUAL MONTHLY ALLOCATION AS
* BASE DATA.  HOWEVER, IF THE USER ELECTS TO PERMANENTLY
* REPLACE THE MONTHLY QUOTA ALLOCATION IN MEMORY, HE MAY DO
* SO BY SELECTING THE 'REPLACE CURRENT QUOTAS' OPTION.

STORE T TO PICKMNTH
SET COLON OFF

DO CASE
   CASE MONTH ='01'
      DO WHILE PICKMNTH = T
      DO CASE
         CASE !(MUNIT) = 'A'
            RESTORE FROM A:ARNGQTAS ADDITIVE
         CASE !(MUNIT) = 'B'
            RESTORE FROM A:BRNGQTAS ADDITIVE
         CASE !(MUNIT) = 'C'
            RESTORE FROM A:CRNGQTAS ADDITIVE
         CASE !(MUNIT) = 'D'
            RESTORE FROM A:DRNGQTAS ADDITIVE
         CASE !(MUNIT) = 'E'
            RESTORE FROM A:BNRNGQTA ADDITIVE
      ENDCASE
         ERASE
         @ 2,15 SAY "RIFLE RANGE QUOTA SCRATCH PAD"
         @ 4,5 SAY "SPACE BELOW THIS LINE IS FOR;
         CALCULATIONS AND WILL BE SAVED"
         @ 5,5 SAY "ONLY IF YOU SPECIFY THE 'REPLACE;
         CURRENT QUOTAS' OPTION "
         @ 6,0 SAY "*********************************;
         ********************"
         @ 8,5 SAY "FEB    MAR    APR    MAY    JUN    JUL;
         AUG    SEP    OCT    NOV    DEC"
         @ 10,4  GET QFEB PICTURE '999'
         @ 10,10 GET QMAR PICTURE '999'
         @ 10,16 GET QAPR PICTURE '999'
         @ 10,22 GET QMAY PICTURE '999'
         @ 10,28 GET QJUN PICTURE '999'
         @ 10,34 GET QJUL PICTURE '999'
         @ 10,40 GET QAUG PICTURE '999'
         @ 10,46 GET QSEP PICTURE '999'
         @ 10,52 GET QOCT PICTURE '999'
         @ 10,58 GET QNOV PICTURE '999'
         @ 10,64 GET QDEC PICTURE '999'
         READ

         @ 12,4  SAY "A TOTAL OF "
         STORE (QFEB+QMAR+QAPR+QMAY+QJUN+QJUL+;
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             (AUG+QSEP+QOCT+QNOV+QDEC) TO TEMPSUM
             @ 12,15 SAY STR(TEMPSUM,3)
             @ 12,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."

        DO CASE
           CASE (TEMPSUM = MLEFT)
              @ 14,4 SAY "QUOTAS EQUAL NUMBER OF MARINES;
              LEFT TO QUALIFY..."
              @ 14,53 SAY STR(TEMPSUM,3)
           CASE (MLEFT > TEMPSUM)
              @ 14,4 SAY "YOU NEED "
              STORE (MLEFT - TEMPSUM) TO NEEDED
              @ 14,13 SAY STR(NEEDED,3)
              @ 14,19 SAY "MORE QUOTAS."
           CASE (TEMPSUM > MLEFT)
              @ 14,4 SAY "YOU HAVE "
              STORE (TEMPSUM - MLEFT) TO EXTRA
              @ 14,13 SAY STR(EXTRA,3)
              @ 14,18 SAY "EXCESS QUOTAS."
        ENDCASE

     @ 15,24 SAY "SELECT ONE OPTION"
     @ 16,18 SAY "A...START AGAIN WITH ORIGINAL QUOTAS"
     @ 17,18 SAY "B...RETURN TO STANDARD REPORT;
     SELECTION MENU"
     @ 18,18 SAY "C...PERMANENTLY REPLACE ORIGINAL QUOTAS"
     ACCEPT "SELECT ONE ===> " TO WHICHWAY

     DO CASE
        CASE !(WHICHWAY) = 'B'
           STORE F TO PICKMNTH
        CASE !(WHICHWAY) = 'C'
           ACCEPT "DO YOU WANT TO PERMANENTLY REPLACE THE;
           ORIGINAL SET OF QUOTAS (Y/N)?"; TO CONTINUE
           IF CONTINUE
              DO CASE
                 CASE !(MUNIT) = 'A'
                    SAVE TO A:ARNGQTAS ALL LIKE Q???
                 CASE !(MUNIT). = 'B'
                    SAVE TO A:BRNGQTAS ALL LIKE Q???
                 CASE !(MUNIT) = 'C'
                    SAVE TO A:CRNGQTAS ALL LIKE Q???
                 CASE !(MUNIT) = 'D'
                    SAVE TO A:DRNGQTAS ALL LIKE Q???
                 CASE !(MUNIT) = 'E'
                    SAVE TO A:BNRNGQTA ALL LIKE Q???
              ENDCASE
              STORE F TO PICKMNTH
           ELSE
              STORE F TO PICKMNTH
           ENDIF
     ENDCASE

  ENDDO

CASE MONTH = '02'
   DO WHILE PICKMNTH = T
   DO CASE
      CASE !(MUNIT) = 'A'
         RESTORE FROM A:ARNGQTAS ADDITIVE
      CASE !(MUNIT) = 'B'
         RESTORE FROM A:BRNGQTAS ADDITIVE
      CASE !(MUNIT) = 'C'
         RESTORE FROM A:CRNGQTAS ADDITIVE
      CASE !(MUNIT) = 'D'
         RESTORE FROM A:DRNGQTAS ADDITIVE
      CASE !(MUNIT) = 'E'
         RESTORE FROM A:BNRNGQTA ADDITIVE
   ENDCASE
```

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```
        ERASE
        @ 2,15 SAY "RIFLE RANGE QUOTA SCRATCH PAD"
        @ 4,5 SAY "SPACE BELCW THIS LINE IS FOR;
        CALCULATIONS AND WILL BE SAVED"
        @ 5,5 SAY "ONLY IF YCU SPECIFY THE 'REPLACE;
        CURRENT QUOTAS' OPTION "
        @ 6,0 SAY "*******************************;
        *********************"
        @ 8,5 SAY "       MAR    APR    MAY    JUN    JUL;
        AUG    SEP    CCT    NOV    DEC"
        @ 1C,10 GET QMAR PICTURE '999'
        @ 10,16 GET QAPR PICTURE '999'
        @ 10,22 GET QMAY PICTURE '999'
        @ 10,28 GET QJUN PICTURE '999'
        @ 10,34 GET QJUL PICTURE '999'
        @ 10,40 GET QAUG PICTURE '999'
        @ 10,46 GET QSEP PICTURE '999'
        @ 10,52 GET QCCT PICTURE '999'
        @ 10,58 GET QNCV PICTURE '999'
        @ 10,64 GET QDEC PICTURE '999'
        READ

        @ 12,4 SAY "A TOTAL OF "
        STORE (QMAR+QAPR+QMAY+QJUN+QJUL+;
        QAUG+QSEP+QOCT+QNOV+QDEC) TO TEMPSUM
        @ 12,15 SAY STR(TEMPSUM,3)
        @ 12,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."

        DO CASE
           CASE (TEMPSUM = MLEFT)
              @ 14,4 SAY "QUOTAS EQUAL NUMBER OF MARINES;
              LEFT TO QUALIFY..."
              @ 14,53 SAY STR(TEMPSUM,3)
           CASE (MLEFT > TEMPSUM)
              @ 14,4 SAY "YOU NEED "
              STORE (MLEFT - TEMPSUM) TO NEEDED
              @ 14,13 SAY STR(NEEDED,3)
              @ 14,19 SAY "MORE QUOTAS."
           CASE (TEMPSUM > MLEFT)
              @ 14,4 SAY "YOU HAVE "
              STORE (TEMPSUM - MLEFT) TO EXTRA
              @ 14,13 SAY STR(EXTRA,3)
              @ 14,18 SAY "EXCESS QUOTAS."
        ENDCASE

        @ 15,24 SAY "SELECT ONE CPTION"
        @ 16,18 SAY "A...START AGAIN WITH ORIGINAL QUOTAS"
        @ 17,18 SAY  "B...RETURN TO STANDARD REPORT;
        SELECTION MENU"
        @ 18,18 SAY  "C...PERMANENTLY REPLACE ORIGINAL;
        QUOTAS"
        ACCEPT "SELECT CNE ===> " TO WHICHWAY

        DO CASE
           CASE !(WHICHWAY) = 'B'
              STORE F TC PICKMNTH
           CASE !(WHICHWAY) = 'C'
              ACCEPT "DC YOU WANT TO PERMANENTLY REPLACE THE;
              ORIGINAL SET OF QUCTAS (Y/N)?" TO CONTINUE
              IF CCNTINUE
                 DO CASE
                    CASE !(MUNIT) = 'A'
                       SAVE TO A:ARNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'B'
                       SAVE TO A:BRNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'C'
                       SAVE TC A:CRNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'D'
                       SAVE TO A:DRNGQTAS ALL LIKE Q???
```

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```
                    CASE !(MUNIT) = 'E'
                        SAVE TO A:BNRNGQTA ALL LIKE Q???
                ENDCASE
                STORE F TO PICKMNTH
            ELSE
                STORE F TO PICKMNTH
            ENDIF
        ENDCASE

    ENDDO

CASE MCNTH ='03'
    DO WHILE PICKMNTH = T
    DO CASE
        CASE !(MUNIT) = 'A'
            RESTORE FROM A:ARNGQTAS ADDITIVE
        CASE !(MUNIT) = 'B'
            RESTORE FROM A:BRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'C'
            RESTORE FROM A:CRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'D'
            RESTORE FROM A:DRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'E'
            RESTORE FROM A:BNRNGQTA ADDITIVE
    ENDCASE
        ERASE
        @ 2,15 SAY "RIFLE RANGE QUOTA SCRATCH PAD"
        @ 4,5 SAY "SPACE BELOW THIS LINE IS FOR;
        CALCULATIONS AND WILL BE SAVED"
        @ 5,5 SAY "ONLY IF YOU SPECIFY THE 'REPLACE;
        CURRENT QUOTAS' OPTION "
        @ 6,0 SAY "*****************************************;
        ***********************"
        @ 8,5 SAY "           APR    MAY    JUN    JUL;
        AUG    SEP    OCT    NOV    DEC"
        @ 10,16 GET QAPR PICTURE '999'
        @ 10,22 GET QMAY PICTURE '999'
        @ 10,28 GET QJUN PICTURE '999'
        @ 10,34 GET QJUL PICTURE '999'
        @ 10,40 GET QAUG PICTURE '999'
        @ 10,46 GET QSEP PICTURE '999'
        @ 10,52 GET QOCT PICTURE '999'
        @ 10,58 GET QNOV PICTURE '999'
        @ 10,64 GET QDEC PICTURE '999'
        READ

        @ 12,4 SAY "A TOTAL OF "
        STORE (QAPR+QMAY+QJUN+QJUL+;
        QAUG+QSEP+QOCT+QNOV+QDEC) TO TEMPSUM
        @ 12,15 SAY STR(TEMPSUM,3)
        @ 12,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."

        DO CASE
            CASE (TEMPSUM = MLEFT)
                @ 14,4 SAY "QUOTAS EQUAL NUMBER OF MARINES;
                LEFT TO QUALIFY..."
                @ 14,53 SAY STR(TEMPSUM,3)
            CASE (MLEFT > TEMPSUM)
                @ 14,4 SAY "YOU NEED "
                STORE (MLEFT - TEMPSUM) TO NEEDED
                @ 14,13 SAY STR(NEEDED,3)
                @ 14,19 SAY "MORE QUOTAS."
            CASE (TEMPSUM > MLEFT)
                @ 14,4 SAY "YOU HAVE "
                STORE (TEMPSUM - MLEFT) TO EXTRA
                @ 14,13 SAY STR(EXTRA,3)
                @ 14,18 SAY "EXCESS QUOTAS."
        ENDCASE
```

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```
        @ 15,24 SAY "SELECT ONE OPTION"
        @ 16,18 SAY "A...START AGAIN WITH ORIGINAL QUOTAS"
        @ 17,18 SAY "B...RETURN TO STANDARD REPORT;
        SELECTION MENU"
        @ 18,18 SAY "C...PERMANENTLY REPLACE ORIGINAL;
        QUOTAS"
        ACCEPT "SELECT ONE ===> " TO WHICHWAY

        DO CASE
            CASE !(WHICHWAY) = 'B'
                STORE F TO PICKMNTH
            CASE !(WHICHWAY) = 'C'
                ACCEPT "DO YOU WANT TO PERMANENTLY REPLACE THE;
                ORIGINAL SET OF QUOTAS (Y/N)?" TO CONTINUE
                IF CONTINUE
                    DO CASE
                        CASE !(MUNIT) = 'A'
                            SAVE TO A:ARNGQTAS ALL LIKE Q???
                        CASE !(MUNIT) = 'B'
                            SAVE TO A:BRNGQTAS ALL LIKE Q???
                        CASE !(MUNIT) = 'C'
                            SAVE TO A:CRNGQTAS ALL LIKE Q???
                        CASE !(MUNIT) = 'D'
                            SAVE TO A:DRNGQTAS ALL LIKE Q???
                        CASE !(MUNIT) = 'E'
                            SAVE TO A:BNRNGQTA ALL LIKE Q???
                    ENDCASE
                    STORE F TO PICKMNTH
                ELSE
                    STORE F TO PICKMNTH
                ENDIF
        ENDCASE

    ENDDO

CASE MONTH ='04'
    DO WHILE PICKMNTH = T
    DO CASE
        CASE !(MUNIT) = 'A'
            RESTORE FROM A:ARNGQTAS ADDITIVE
        CASE !(MUNIT) = 'B'
            RESTORE FROM A:BRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'C'
            RESTORE FROM A:CRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'D'
            RESTORE FROM A:DRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'E'
            RESTORE FROM A:BNRNGQTA ADDITIVE
    ENDCASE
        ERASE
        @ 2,15 SAY "RIFLE RANGE QUOTA SCRATCH PAD"
        @ 4,5 SAY "SPACE BELOW THIS LINE IS FOR;
        CALCULATIONS AND WILL BE SAVED"
        @ 5,5 SAY "ONLY IF YOU SPECIFY THE 'REPLACE;
        CURRENT QUOTAS' OPTION "
        @ 6,0 SAY "************************************;
        ***********************"
        @ 8,5 SAY "                        MAY    JUN    JUL;
        AUG    SEP    OCT    NOV    DEC"
        @ 10,22 GET QMAY PICTURE '999'
        @ 10,28 GET QJUN PICTURE '999'
        @ 10,34 GET QJUL PICTURE '999'
        @ 10,40 GET QAUG PICTURE '999'
        @ 10,46 GET QSEP PICTURE '999'
        @ 10,52 GET QOCT PICTURE '999'
        @ 10,58 GET QNOV PICTURE '999'
        @ 10,64 GET QDEC PICTURE '999'
        READ
```

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```
          @ 12,4 SAY "A TOTAL OF "
          STORE (QMAY+QJUN+QJUL+;
          QAUG+QSEP+QOCT+QNOV+QDEC) TO TEMPSUM
          @ 12,15 SAY STR(TEMPSUM,3)
          @ 12,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."

          DO CASE
             CASE (TEMPSUM = MLEFT)
                @ 14,4 SAY "QUOTAS EQUAL NUMBER OF MARINES;
                LEFT TO QUALIFY..."
                @ 14,53 SAY STR(TEMPSUM,3)
             CASE (MLEFT > TEMPSUM)
                @ 14,4 SAY "YOU NEED "
                STORE (MLEFT - TEMPSUM) TO NEEDED
                @ 14,13 SAY STR(NEEDED,3)
                @ 14,19 SAY "MORE QUOTAS."
             CASE (TEMPSUM > MLEFT)
                @ 14,4 SAY "YOU HAVE "
                STORE (TEMPSUM - MLEFT) TO EXTRA
                @ 14,13 SAY STR(EXTRA,3)
                @ 14,18 SAY "EXCESS QUOTAS."
          ENDCASE

          @ 15,24 SAY "SELECT ONE OPTION"
          @ 16,18 SAY "A...START AGAIN WITH ORIGINAL QUOTAS"
          @ 17,18 SAY  "B...RETURN TO STANDARD REPORT;
          SELECTION MENU"
          @ 18,18 SAY  "C...PERMANENTLY REPLACE ORIGINAL;
          QUOTAS"
          ACCEPT "SELECT ONE ===> " TO WHICHWAY

          DO CASE
             CASE !(WHICHWAY) = 'B'
                STORE F TO PICKMNTH
             CASE !(WHICHWAY) = 'C'
                ACCEPT "DO YOU WANT TO PERMANENTLY REPLACE THE;
                ORIGINAL SET OF QUOTAS (Y/N)?" TO CONTINUE
                IF CONTINUE
                   DO CASE
                      CASE !(MUNIT) = 'A'
                         SAVE TO A:ARNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'B'
                         SAVE TO A:BRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'C'
                         SAVE TO A:CRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'D'
                         SAVE TO A:DRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'E'
                         SAVE TO A:BNRNGQTA ALL LIKE Q???
                   ENDCASE
                   STORE F TO PICKMNTH
                ELSE
                   STORE F TO PICKMNTH
                ENDIF
          ENDCASE

    ENDDO

CASE MONTH ='05'
    DO WHILE PICKMNTH = T
    DO CASE
       CASE !(MUNIT) = 'A'
          RESTORE FROM A:ARNGQTAS ADDITIVE
       CASE !(MUNIT) = 'B'
          RESTORE FROM A:BRNGQTAS ADDITIVE
       CASE !(MUNIT) = 'C'
          RESTORE FROM A:CRNGQTAS ADDITIVE
       CASE !(MUNIT) = 'D'
          RESTORE FROM A:DRNGQTAS ADDITIVE
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     CASE !(MUNIT) = 'E'
          RESTORE FROM A:BRNGQTA ADDITIVE
ENDCASE
     ERASE
     @ 2,15 SAY "RIFLE RANGE QUOTA SCRATCH PAD"
     @ 4,5 SAY "SPACE BELOW THIS LINE IS FOR;
     CALCULATIONS AND WILL BE SAVED"
     @ 5,5 SAY "ONLY IF YOU SPECIFY THE 'REPLACE;
     CURRENT QUOTAS' OPTION "
     @ 6,0 SAY "*****************************************;
     ******************"
     @ 8,5 SAY "                            JUN    JUL;
     AUG    SEP    OCT    NOV    DEC"
     @ 10,28 GET QJUN PICTURE '999'
     @ 10,34 GET QJUL PICTURE '999'
     @ 10,40 GET QAUG PICTURE '999'
     @ 10,46 GET QSEP PICTURE '999'
     @ 10,52 GET QOCT PICTURE '999'
     @ 10,58 GET QNOV PICTURE '999'
     @ 10,64 GET QDEC PICTURE '999'
     READ

     @ 12,4 SAY "A TOTAL OF "
     STORE (QJUN+QJUL+;
     QAUG+QSEP+QOCT+QNOV+QDEC) TO TEMPSUM
     @ 12,15 SAY STR(TEMPSUM,3)
     @ 12,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."

     DO CASE
        CASE (TEMPSUM = MLEFT)
             @ 14,4 SAY "QUOTAS EQUAL NUMBER OF MARINES;
             LEFT TO QUALIFY..."
             @ 14,53 SAY STR(TEMPSUM,3)
        CASE (MLEFT > TEMPSUM)
             @ 14,4 SAY "YOU NEED "
             STORE (MLEFT - TEMPSUM) TO NEEDED
             @ 14,13 SAY STR(NEEDED,3)
             @ 14,19 SAY "MORE QUOTAS."
        CASE (TEMPSUM > MLEFT)
             @ 14,4 SAY "YOU HAVE "
             STORE (TEMPSUM - MLEFT) TO EXTRA
             @ 14,13 SAY STR(EXTRA,3)
             @ 14,18 SAY "EXCESS QUOTAS."
     ENDCASE

     @ 15,24 SAY "SELECT ONE OPTION"
     @ 16,18 SAY "A...START AGAIN WITH ORIGINAL QUOTAS"
     @ 17,18 SAY "B...RETURN TO STANDARD REPORT;
     SELECTION MENU"
     @ 18,18 SAY "C...PERMANENTLY REPLACE ORIGINAL QUOTAS"
     ACCEPT "SELECT ONE ===> " TO WHICHWAY

     DO CASE
        CASE !(WHICHWAY) = 'B'
             STORE F TO PICKMNTH
        CASE !(WHICHWAY) = 'C'
             ACCEPT "DO YOU WANT TO PERMANENTLY REPLACE THE;
             ORIGINAL SET OF QUOTAS (Y/N)?" TO CONTINUE
             IF CONTINUE
                DO CASE
                   CASE !(MUNIT) = 'A'
                        SAVE TO A:ARNGQTAS ALL LIKE Q???
                   CASE !(MUNIT) = 'B'
                        SAVE TO A:BRNGQTAS ALL LIKE Q???
                   CASE !(MUNIT) = 'C'
                        SAVE TO A:CRNGQTAS ALL LIKE Q???
                   CASE !(MUNIT) = 'D'
                        SAVE TO A:DRNGQTAS ALL LIKE Q???
                   CASE !(MUNIT) = 'E'
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                        SAVE TC A:BNRNGQTA ALL LIKE Q???
                  ENDCASE
                  STORE F TO PICKMNTH
              ELSE
                  STORE F TO PICKMNTH
              ENDIF
        ENDCASE

   ENDDO

   CASE MCNTH ='06'
       DO WHILE PICKMNTH = T
       DO CASE
          CASE !(MUNIT) = 'A'
              RESTORE FROM A:ARNGQTAS ADDITIVE
          CASE !(MUNIT) = 'B'
              RESTORE FROM A:BRNGQTAS ADDITIVE
          CASE !(MUNIT) = 'C'
              RESTORE FROM A:CRNGQTAS ADDITIVE
          CASE !(MUNIT) = 'D'
              RESTORE FROM A:DRNGQTAS ADDITIVE
          CASE !(MUNIT) = 'E'
              RESTORE FROM A:BNRNGQTA ADDITIVE
       ENDCASE
       ERASE
       @ 2,15 SAY "RIFLE RANGE QUOTA SCRATCH PAD"
       @ 4,5 SAY "SPACE BELOW THIS LINE IS FOR;
       CALCULATIONS AND WILL BE SAVED"
       @ 5,5 SAY "ONLY IF YOU SPECIFY THE 'REPLACE;
       CURRENT QUOTAS' OPTION "
       @ 6,0 SAY "**********************************;
       ******************************"
       @ 8,5 SAY "                            JUL;
       AUG   SEP    OCT    NOV    DEC"
       @ 10,34 GET QJUL PICTURE '999'
       @ 10,40 GET QAUG PICTURE '999'
       @ 10,46 GET QSEP PICTURE '999'
       @ 10,52 GET QOCT PICTURE '999'
       @ 10,58 GET QNOV PICTURE '999'
       @ 10,64 GET QDEC PICTURE '999'
       READ

       @ 12,4 SAY "A TOTAL OF "
       STORE (QJUL+;
       QAUG+QSEP+QOCT+QNOV+QDEC) TO TEMPSUM
       @ 12,15 SAY STR(TEMPSUM,3)
       @ 12,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."

       DO CASE
          CASE (TEMPSUM = MLEFT)
              @ 14,4 SAY "QUOTAS EQUAL NUMBER OF MARINES;
              LEFT TO QUALIFY..."
              @ 14,53 SAY STR(TEMPSUM,3)
          CASE (MLEFT > TEMPSUM)
              @ 14,4 SAY "YOU NEED "
              STORE (MLEFT - TEMPSUM) TO NEEDED
              @ 14,13 SAY STR(NEEDED,3)
              @ 14,19 SAY "MORE QUOTAS."
          CASE (TEMPSUM > MLEFT)
              @ 14,4 SAY "YOU HAVE "
              STORE (TEMPSUM - MLEFT) TO EXTRA
              @ 14,13 SAY STR(EXTRA,3)
              @ 14,18 SAY "EXCESS QUOTAS."
       ENDCASE

       @ 15,24 SAY "SELECT ONE OPTION"
       @ 16,18 SAY "A...START AGAIN WITH ORIGINAL QUOTAS"
       @ 17,18 SAY "E...RETURN TO STANDARD REPORT;
       SELECTION MENU"
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```
        @ 18,18 SAY  "C...PERMANENTLY REPLACE ORIGINAL QUOTAS"
        ACCEPT "SELECT ONE ===> " TO WHICHWAY

        DO CASE
           CASE !(WHICHWAY) = 'B'
              STORE F TO PICKMNTH
           CASE !(WHICHWAY) = 'C'
              ACCEPT "DO YOU WANT TO PERMANENTLY REPLACE THE;
              ORIGINAL SET OF QUOTAS (Y/N)?"; TO CONTINUE
              IF CONTINUE
                 DO CASE
                    CASE !(MUNIT) = 'A'
                       SAVE TO A:ARNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'B'
                       SAVE TO A:BRNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'C'
                       SAVE TO A:CRNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'D'
                       SAVE TO A:DRNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'E'
                       SAVE TO A:BNRNGQTA ALL LIKE Q???
                 ENDCASE
                 STORE F TO PICKMNTH
              ELSE
                 STORE F TO PICKMNTH
              ENDIF
        ENDCASE

    ENDDO

CASE MONTH ='07'
    DO WHILE PICKMNTH = T
    DO CASE
       CASE !(MUNIT) = 'A'
          RESTORE FROM A:ARNGQTAS ADDITIVE
       CASE !(MUNIT) = 'B'
          RESTORE FROM A:BRNGQTAS ADDITIVE
       CASE !(MUNIT) = 'C'
          RESTORE FROM A:CRNGQTAS ADDITIVE
       CASE !(MUNIT) = 'D'
          RESTORE FROM A:DRNGQTAS ADDITIVE
       CASE !(MUNIT) = 'E'
          RESTORE FROM A:BNRNGQTA ADDITIVE
    ENDCASE
    ERASE
    @ 2,15 SAY "RIFLE RANGE QUOTA SCRATCH PAD"
    @ 4,5 SAY "SPACE BELOW THIS LINE IS FOR;
    CALCULATIONS AND WILL BE SAVED"
    @ 5,5 SAY "ONLY IF YOU SPECIFY THE 'REPLACE;
    CURRENT QUOTAS' OPTION "
    @ 6,0 SAY "*********************************;
    ***********************"
    @ 8,5 SAY "                                  ;
    AUG   SEP   OCT   NOV   DEC"
    @ 10,40 GET QAUG PICTURE '999'
    @ 10,46 GET QSEP PICTURE '999'
    @ 10,52 GET QOCT PICTURE '999'
    @ 10,58 GET QNOV PICTURE '999'
    @ 10,64 GET QDEC PICTURE '999'
    READ

    @ 12,4 SAY "A TOTAL OF "
    STORE (QAUG+QSEP+QOCT+QNOV+QDEC) TO TEMPSUM
    @ 12,15 SAY STR(TEMPSUM,3)
    @ 12,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."

    DO CASE
       CASE (TEMPSUM = MLEFT)
          @ 14,4 SAY "QUOTAS EQUAL NUMBER OF MARINES;
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                 LEFT TO QUALIFY..."
              @ 14,53 SAY STR(TEMPSUM,3)
          CASE (MLEFT > TEMPSUM)
              @ 14,4 SAY "YOU NEED "
              STORE (MLEFT - TEMPSUM) TO NEEDED
              @ 14,13 SAY STR(NEEDED,3)
              @ 14,19 SAY "MORE QUOTAS."
          CASE (TEMPSUM > MLEFT)
              @ 14,4 SAY "YOU HAVE "
              STORE (TEMPSUM - MLEFT) TO EXTRA
              @ 14,13 SAY STR(EXTRA,3)
              @ 14,18 SAY "EXCESS QUOTAS."
          ENDCASE

      @ 15,24 SAY "SELECT ONE OPTION"
      @ 16,18 SAY "A...START AGAIN WITH ORIGINAL QUOTAS"
      @ 17,18 SAY  "B...RETURN TO STANDARD REPORT;
SELECTION MENU"
      @ 18,18 SAY  "C...PERMANENTLY REPLACE ORIGINAL QUOTAS"
      ACCEPT "SELECT ONE ===> " TO WHICHWAY

      DO CASE
          CASE !(WHICHWAY) = 'B'
              STORE F TO PICKMNTH
          CASE !(WHICHWAY) = 'C'
              ACCEPT "DO YOU WANT TO PERMANENTLY REPLACE THE;
              ORIGINAL SET OF QUOTAS (Y/N)?"; TO CONTINUE
              IF CONTINUE
                  DO CASE
                      CASE !(MUNIT) = 'A'
                          SAVE TO A:ARNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'B'
                          SAVE TO A:BRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'C'
                          SAVE TO A:CRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'D'
                          SAVE TO A:DRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'E'
                          SAVE TO A:BNRNGQTA ALL LIKE Q???
                  ENDCASE
                  STORE F TO PICKMNTH
              ELSE
                  STORE F TO PICKMNTH
              ENDIF
      ENDCASE

  ENDDO

CASE MONTF ='08'
    DO WHILE PICKMNTH = T
    DO CASE
        CASE !(MUNIT) = 'A'
            RESTORE FROM A:ARNGQTAS ADDITIVE
        CASE !(MUNIT) = 'B'
            RESTORE FROM A:BRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'C'
            RESTORE FROM A:CRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'D'
            RESTORE FROM A:DRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'E'
            RESTORE FROM A:BNRNGQTA ADDITIVE
    ENDCASE
        ERASE
        @ 2,15 SAY "RIFLE RANGE QUOTA SCRATCH PAD"
        @ 4,5 SAY "SPACE BELOW THIS LINE IS FOR;
        CALCULATIONS AND WILL BE SAVED"
        @ 5,5 SAY "ONLY IF YOU SPECIFY THE 'REPLACE;
        CURRENT QUOTAS' OPTION "
        @ 6,0 SAY "*******************************;
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          **********************"
          @ 8,5 SAY "                               ;
    SEP    OCT    NCV    DEC"
          @ 10,46 GET QSEP PICTURE '999'
          @ 10,52 GET QCCT PICTURE '999'
          @ 10,58 GET QNCV PICTURE '999'
          @ 10,64 GET QDEC PICTURE '999'
          READ

          @ 12,4 SAY "A TOTAL OF "
          STORE (QSEP+QCCT+QNCV+QDEC) TO TEMPSUM
          @ 12,15 SAY STR(TEMPSUM,3)
          @ 12,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."

          DO CASE
             CASE (TEMPSUM = MLEFT)
                @ 14,4 SAY "QUOTAS EQUAL NUMBER OF MARINES;
                LEFT TO QUALIFY..."
                @ 14,53 SAY STR(TEMPSUM,3)
             CASE (MLEFT > TEMPSUM)
                @ 14,4 SAY "YOU NEED "
                STORE (MLEFT - TEMPSUM) TO NEEDED
                @ 14,13 SAY STR(NEEDED,3)
                @ 14,19 SAY "MORE QUOTAS."
             CASE (TEMPSUM > MLEFT)
                @ 14,4 SAY "YOU HAVE "
                STORE (TEMPSUM - MLEFT) TO EXTRA
                @ 14,13 SAY STR(EXTRA,3)
                @ 14,18 SAY "EXCESS QUOTAS."
          ENDCASE

          @ 15,24 SAY "SELECT ONE OPTION"
          @ 16,18 SAY "A...START AGAIN WITH ORIGINAL QUOTAS"
          @ 17,18 SAY "B...RETURN TO STANDARD REPORT;
    SELECTION MENU"
          @ 18,18 SAY "C...PERMANENTLY REPLACE ORIGINAL QUOTAS"
          ACCEPT "SELECT ONE ===> " TO WHICHWAY

          DO CASE
             CASE !(WHICHWAY) = 'B'
                STORE F TO PICKMNTH
             CASE !(WHICHWAY) = 'C'
                ACCEPT "DO YOU WANT TO PERMANENTLY REPLACE THE;
                ORIGINAL SET OF QUOTAS (Y/N)?" TO CONTINUE
                IF CONTINUE
                   DO CASE
                      CASE !(MUNIT) = 'A'
                         SAVE TO A:ARNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'B'
                         SAVE TO A:BRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'C'
                         SAVE TO A:CRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'D'
                         SAVE TO A:DRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'E'
                         SAVE TO A:BNRNGQTA ALL LIKE Q???
                   ENDCASE
                   STORE F TO PICKMNTH
                ELSE
                   STORE F TO PICKMNTH
                ENDIF
          ENDCASE

       ENDDO

    CASE MONTH ='09'
       DO WHILE PICKMNTH = T
       DO CASE
          CASE !(MUNIT) = 'A'
```

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            RESTORE FRCM A:ARNGQTAS ADDITIVE
      CASE !(MUNIT) = 'B'
            RESTORE FRCM A:BRNGQTAS ADDITIVE
      CASE !(MUNIT) = 'C'
            RESTORE FFCM A:CRNGQTAS ADDITIVE
      CASE !(MUNIT) = 'D'
            RESTORE FFCM A:DRNGQTAS ADDITIVE
      CASE !(MUNIT) = 'E'
            RESTORE FROM A:BNRNGQTA ADDITIVE
ENDCASE
      ERASE
      @ 2,15 SAY "FIFLE RANGE QUOTA SCRATCH PAD"
      @ 4,5 SAY "SPACE BELOW THIS LINE IS FOR;
      CALCULATIONS AND WILL EE SAVED"
      @ 5,5 SAY "ONLY IF YOU SPECIFY THE 'REPLACE;
      CURRENT QUOTAS' OPTION "
      @ 6,0 SAY "*****************************;
      ********************************"
      @ 8,5 SAY "                             ;
      CCT    NOV    DEC"
      @ 10,52 GET CCCT PICTURE '999'
      @ 10,58 GET CNOV PICTURE '999'
      @ 10,64 GET CDEC PICTURE '999'
      READ

      @ 12,4 SAY "A TOTAL OF "
      STORE (QOCT+CNOV+QDEC) TO TEMPSUM
      @ 12,15 SAY STR(TEMPSUM,3)
      @ 12,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."

      DO CASE
        CASE (TEMPSUM = MLEFT)
            @ 14,4 SAY "QUOTAS EQUAL NUMBER OF MARINES;
            LEFT TO QUALIFY..."
            @ 14,53 SAY STR(TEMPSUM,3)
        CASE (MLEFT > TEMPSUM)
            @ 14,4 SAY "YOU NEED "
            STORE (MLEFT - TEMPSUM) TO NEEDED
            @ 14,13 SAY STR(NEEDED,3)
            @ 14,19 SAY "MORE QUOTAS."
        CASE (TEMPSUM > MLEFT)
            @ 14,4 SAY "YOU HAVE "
            STORE (TEMPSUM - MLEFT) TO EXTRA
            @ 14,13 SAY STR(EXTRA,3)
            @ 14,18 SAY "EXCESS QUOTAS."
      ENDCASE

      @ 15,24 SAY "SELECT ONE OPTION"
      @ 16,18 SAY "A...START AGAIN WITH ORIGINAL QUOTAS"
      @ 17,18 SAY "E...RETURN TO STANDARD REPORT;
      SELECTION MENU"
      @ 18,18 SAY "C...PERMANENTLY REPLACE ORIGINAL QUCTAS"
      ACCEPT "SELECT CNE ===> " TO WHICHWAY
      DO CASE
        CASE !(WHICHWAY) = 'B'
            STORE F TO PICKMNTB
        CASE !(WHICHWAY) = 'C'
            ACCEPT "DC YOU WANT TO PERMANENTLY REPLACE THE;
            ORIGINAL SET OF QUOTAS (Y,/N)?" TO CONTINUE
            IF CONTINUE
                DO CASE
                    CASE !(MUNIT) = 'A'
                        SAVE TO A:ARNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'B'
                        SAVE TO A:BRNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'C'
                        SAVE TO A:CRNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'D'
                        SAVE TO A:DRNGQTAS ALL LIKE Q???
```

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                    CASE !(MUNIT) = 'E'
                        SAVE TO A:BNRNGQTA ALL LIKE Q???
                ENDCASE
                STORE F TO PICKMNTH
            ELSE
                STORE F TO PICKMNTH
            ENDIF
        ENDCASE

    ENDDO

CASE MCNTH ='10'
    DO WHILE PICKMNTH = T
    DO CASE
        CASE !(MUNIT) = 'A'
            RESTORE FROM A:ARNGQTAS ADDITIVE
        CASE !(MUNIT) = 'B'
            RESTORE FROM A:BRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'C'
            RESTORE FROM A:CRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'D'
            RESTORE FROM A:DRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'E'
            RESTORE FROM A:BNRNGQTA ADDITIVE
    ENDCASE
        ERASE
        @ 2,15 SAY "RIFLE RANGE QUOTA SCRATCH PAD"
        @ 4,5 SAY "SPACE BELOW THIS LINE IS FOR;
        CALCULATIONS AND WILL BE SAVED"
        @ 5,5 SAY "ONLY IF YOU SPECIFY THE 'REPLACE;
        CURRENT QUOTAS' OPTION "
        @ 6,0 SAY "***********************************;
        *****************************"
        @ 8,5 SAY "                                   ;
                                NOV   DEC"
       ·@ 10,58 GET QNOV PICTURE '999'
        @ 10,64 GET QDEC PICTURE '999'
        READ

        @ 12,4 SAY "A TOTAL OF "
        STORE (QNOV+QDEC) TO TEMPSUM
        @ 12,15 SAY STR(TEMPSUM,3)
        @ 12,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."

        DO CASE
            CASE (TEMPSUM = MLEFT)
                @ 14,4 SAY "QUOTAS EQUAL NUMBER OF MARINES;
                LEFT TO QUALIFY..."
                @ 14,53 SAY STR(TEMPSUM,3)
            CASE (MLEFT > TEMPSUM)
                @ 14,4 SAY "YOU NEED "
                STORE (MLEFT - TEMPSUM) TO NEEDED
                @ 14,13 SAY STR(NEEDED,3)
                @ 14,19 SAY "MORE QUOTAS."
            CASE (TEMPSUM > MLEFT)
                @ 14,4 SAY "YOU HAVE "
                STORE (TEMPSUM - MLEFT) TO EXTRA
                @ 14,13 SAY STR(EXTRA,3)
                @ 14,18 SAY "EXCESS QUOTAS."
        ENDCASE

        @ 15,24 SAY "SELECT ONE OPTION"
        @ 16,18 SAY "A...START AGAIN WITH ORIGINAL QUOTAS"
        @ 17,18 SAY "E...RETURN TO STANDARD REPORT;
        SELECTION MENU"
        @ 18,18 SAY "C...PERMANENTLY REPLACE ORIGINAL;
        QUOTAS"
        ACCEPT "SELECT ONE ===> " TO WHICHWAY
```

```
    DC CASE
        CASE !(WHICHWAY) = 'B'
            STORE F TO PICKMNTH
        CASE !(WHICHWAY) = 'C'
            ACCEPT "DC YOU WANT TO PERMANENTLY REPLACE THE;
            ORIGINAL SET OF QUOTAS (Y/N)?" TO CONTINUE
            IF CONTINUE
                DO CASE
                    CASE !(MUNIT) = 'A'
                        SAVE TO A:ARNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'B'
                        SAVE TO A:BRNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'C'
                        SAVE TO A:CRNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'D'
                        SAVE TO A:DRNGQTAS ALL LIKE Q???
                    CASE !(MUNIT) = 'E'
                        SAVE TO A:BNRNGQTA ALL LIKE Q???
                ENDCASE
                STORE F TO PICKMNTH
            ELSE
                STORE F TO PICKMNTH
            ENDIF
    ENDCASE

  ENDDO

CASE MCNTH ='11'
    DO WHILE PICKMNTH = T
    DO CASE
        CASE !(MUNIT) = 'A'
            RESTORE FROM A:ARNGQTAS ADDITIVE
        CASE !(MUNIT) = 'B'
            RESTORE FROM A:BRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'C'
            RESTORE FROM A:CRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'D'
            RESTORE FROM A:DRNGQTAS ADDITIVE
        CASE !(MUNIT) = 'E'
            RESTORE FROM A:BNRNGQTA ADDITIVE
    ENDCASE
        ERASE
        @ 2,15 SAY "RIFLE RANGE QUOTA SCRATCH PAD"
        @ 4,5 SAY "SPACE BELOW THIS LINE IS FOR;
        CALCULATIONS AND WILL BE SAVED"
        @ 5,5 SAY "ONLY IF YOU SPECIFY THE 'REPLACE;
        CURRENT QUOTAS' OPTION "
        @ 6,0 SAY "*********************************;
        ******************************"
        @ 8,5 SAY                                   ;
        DEC"
        @ 10,64 GET QDEC PICTURE '999'
        READ

        @ 12,4 SAY "A TOTAL OF "
        STORE (QFEB+QMAR+QAPR+QMAY+QJUN+QJUL+;
        QAUG+QSEP+QOCT+QNOV+QDEC) TO TEMPSUM
        @ 12,15 SAY STR(TEMPSUM,3)
        @ 12,19 SAY "QUOTAS REMAIN FOR THE CURRENT YEAR."

        DO CASE
            CASE (TEMPSUM = MLEFT)
                @ 14,4 SAY "QUOTAS EQUAL NUMBER OF MARINES;
                LEFT TO QUALIFY..."
                @ 14,53 SAY STR(TEMPSUM,3)
            CASE (MLEFT > TEMPSUM)
                @ 14,4 SAY "YOU NEED "
                STORE (MLEFT - TEMPSUM) TO NEEDED
                @ 14,13 SAY STR(NEEDED,3)
```

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                    @ 14,19 SAY "MORE QUOTAS."
              CASE (TEMPSUM > MLEFT)
                    @ 14,4 SAY "YOU HAVE "
                    STORE (TEMPSUM - MLEFT) TO EXTRA
                    @ 14,13 SAY STR(EXTRA,3)
                    @ 14,18 SAY "EXCESS QUOTAS."
              ENDCASE

          @ 15,24 SAY "SELECT ONE OPTION"
          @ 16,18 SAY "A...START AGAIN WITH ORIGINAL QUOTAS"
          @ 17,18 SAY   "B...RETURN TO STANDARD REPORT;
          SELECTION MENU"
          @ 18,18 SAY   "C...PERMANENTLY REPLACE ORIGINAL QUOTAS"
          ACCEPT "SELECT ONE ===> " TO WHICHWAY

          DO CASE
             CASE !(WHICHWAY) = 'B'
                STORE F TO PICKMNTH
             CASE !(WHICHWAY) = 'C'
                ACCEPT "DO YOU WANT TO PERMANENTLY REPLACE THE;
                ORIGINAL SET OF QUOTAS (Y/N)?" TO CONTINUE
                IF CONTINUE
                   DO CASE
                      CASE !(MUNIT) = 'A'
                         SAVE TO A:ARNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'B'
                         SAVE TO A:BRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'C'
                         SAVE TO A:CRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'D'
                         SAVE TO A:DRNGQTAS ALL LIKE Q???
                      CASE !(MUNIT) = 'E'
                         SAVE TO A:BNRNGQTA ALL LIKE Q???
                   ENDCASE
                   STORE F TO PICKMNTH
                ELSE
                   STORE F TO PICKMNTH
                ENDIF
          ENDCASE

      ENDDO

   CASE MONTH ='12'
       ERASE
       @ 2,15 SAY "RIFLE RANGE QUOTA SCRATCH PAD"
       @ 4,5 SAY "SPACE BELOW THIS LINE IS FOR CALCULATIONS;
       AND WILL BE SAVED"
       @ 5,5 SAY "ONLY IF YOU SPECIFY THE 'REPLACE CURRENT;
       QUOTAS' OPTION "
       @ 6,0 SAY "*************************************************;
       **************"
       @ 8,5 SAY "THIS IS THE LAST MONTH OF THE CURRENT;
       YEAR."
   ENDCASE

ENDCASE

SET COLON ON
RELEASE ALL LIKE Q???
RELEASE MLEFT,TEMPSUM,WHICHWAY,PICKMNTH,CONTINUE
RETURN
```

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M. MARKSMANSHIP ROSTER ROUTINE

```
* ROUTINE NAME: MKSRCST.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.7.0
* AUTHOR: R.E. PRUIETT
* DATE: 28DEC83
* VARIABLES USED: MUNIT, MPLAT
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: NONE
* VARIABLES RELEASED: MUNIT, MPLAT
* FILES OPENED/CLOSED: PERS, QUAL (ALL FILES CLOSED)
* TEMP FILES CREATED: MRKSDATA (CREATED AND DELETED)
* USING SUBROUTINES: STDRPT.PRG
* DESCRIPTION: THIS ROUTINE CREATES A TEMPORARY FILE WHICH
* INCLUDES NAME, RFLQUAL, RFLDATE, PSTQUAL, PSTDATE FOR
* EACH MEMBER IN THE SELECTED UNIT.  A STANDARD REPORT
* FORMAT (B:MRKSRPT) IS USED TO DISPLAY THE "MARKSMANSHIP
* ROSTER REPORT".
*
USE PERS
SELECT SECONDARY
USE QUAL
JOIN TO MRKSDATA FOR P.SSN = S.SSN FIELD;
NAME,RFLQUAL,RFLDATE,PSTQUAL,PSTDATE
USE MRKSDATA
ERASE
DO CASE
    CASE ! (MUNIT) = 'A'
        REPORT FORM B:MRKSRPT
    CASE ! (MUNIT) = 'B' .AND. !(MPLAT) = 'A'
        REPORT FORM B:MRKSRPT FOR COMPANY = ONECO
    CASE ! (MUNIT) = 'B' .AND. !(MPLAT) = 'B'
        REPORT FORM B:MRKSRPT FOR COMPANY = ONECO .AND.;
        PLATOON = ONEPLT
    CASE ! (MUNIT) = 'B' .AND. !(MPLAT) = 'C'
        REPORT FORM B:MRKSRPT FOR COMPANY = ONECO .AND.;
        PLATOON = TWOPLT
    CASE ! (MUNIT) = 'B' .AND. !(MPLAT) = 'D'
        REPORT FORM B:MRKSRPT FOR COMPANY = ONECO .AND.;
        PLATOON = THREEPLT
    CASE ! (MUNIT) = 'B' .AND. !(MPLAT) = 'E'
        REPORT FORM B:MRKSRPT FOR COMPANY = ONECO .AND.;
        PLATOON = FOURPLT
    CASE ! (MUNIT) = 'C' .AND. !(MPLAT) = 'A'
        REPORT FORM B:MRKSRPT FOR COMPANY = TWOCO
    CASE ! (MUNIT) = 'C' .AND. !(MPLAT) = 'B'
        REPORT FORM B:MRKSRPT FOR COMPANY = TWOCO .AND.;
        PLATOON = ONEPLT
    CASE ! (MUNIT) = 'C' .AND. !(MPLAT) = 'C'
        REPORT FORM B:MRKSRPT FOR COMPANY = TWOCO .AND.;
        PLATOON = TWOPLT
    CASE ! (MUNIT) = 'C' .AND. !(MPLAT) = 'D'
        REPORT FORM B:MRKSRPT FOR COMPANY = TWOCO .AND.;
        PLATOON = THREEPLT
    CASE ! (MUNIT) = 'C' .AND. !(MPLAT) = 'E'
        REPORT FORM B:MRKSRPT FOR COMPANY = TWOCO .AND.;
        PLATOON = FOURPLT
    CASE ! (MUNIT) = 'D' .AND. !(MPLAT) = 'A'
        REPORT FORM B:MRKSRPT FOR COMPANY = THREECO
    CASE ! (MUNIT) = 'D' .AND. !(MPLAT) = 'B'
        REPORT FORM B:MRKSRPT FOR COMPANY = THREECO .AND.;
        PLATOON = ONEPLT
    CASE ! (MUNIT) = 'D' .AND. !(MPLAT) = 'C'
        REPORT FORM B:MRKSRPT FOR COMPANY = THREECO .AND.;
        PLATOON = TWOPLT
    CASE ! (MUNIT) = 'D' .AND. !(MPLAT) = 'D'
        REPORT FORM B:MRKSRPT FOR COMPANY = THREECO .AND.;
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               FLATCCN = THREEFIT
     CASE ! (MUNIT) = 'D' .AND. !(MPLAT) = 'E'
          REPORT FORM B:MRKSRPT FOR COMPANY = THREECO .AND.;
               FLATCCN = FOURFIT
     CASE ! (MUNIT) = 'E' .AND. !(MPLAT) = 'A'
          REPORT FORM B:MRKSRPT FOR COMPANY = FOURCO
     CASE ! (MUNIT) = 'E' .AND. !(MPLAT) = 'B'
          REPORT FORM B:MRKSRPT FOR COMPANY = FOURCO .AND.;
               FLATCCN = ONEFIT
     CASE ! (MUNIT) = 'E' .AND. !(MPLAT) = 'C'
          REPORT FORM B:MRKSRPT FOR COMPANY = FOURCO .AND.;
               FLATCCN = TWOFIT
     CASE ! (MUNIT) = 'E' .AND. !(MPLAT) = 'D'
          REPORT FORM B:MRKSRPT FOR COMPANY = FOURCO .AND.;
               FLATCCN = THREEFIT
     CASE ! (MUNIT) = 'E' .AND. !(MPLAT) = 'E'
          REPORT FORM B:MRKSRPT FOR COMPANY = FOURCO .AND.;
               FLATCCN = FOURFIT
ENDCASE
USE
RELEASE MUNIT, MPLAT
DELETE FILE MRKSDATA
RETURN
```

N. MCS STATUS ROUTINE

```
* ROUTINE NAME: MOSSTAT.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.8.0
* AUTHOR: R.E. PRUIETT
* DATE: 6NOV83
* VARIABLES USED: ONECO, TWOCO, THREECO, FOURCO, ONEPLT,
* TWOPLT, THREEPLT, FOURPLT, MUNIT, MPLAT, UNITNAME,
* PLATNAME
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: COUNT, MOS, RK, PROCEED
* VARIABLES RELEASED: PROCEED, ROW, RK, COUNT, UNITNAME,
* PLATNAME
* FILES OPENED/CLOSED: A:PERS INDEX A:MOSNDX (ALL FILES
* CLOSED)
* TEMP FILES CREATED: NONE
* USING ROUTINES: STDRPT.PRG
* DESCRIPTION: THIS ROUTINE PRODUCES THE "MOS STATUS
* REPORT".  EACH TYPE OF MOS IN THE SPECIFIED UNIT IS
* COUNTED AND TOTALED, REGARDLESS OF THE TYPE OR NUMBER OF
* DIFFERENT MOS'S IN THE PARTICULAR UNIT. THE RESULTS ARE
* THEN DISPLAYED BY MCS AND BY RANK.
*
ERASE
DO CVRTUNIT
USE A:PERS INDEX A:MOSNDX
@ 0,20 SAY "MOS STATUS REPORT"
IF !(MUNIT)='E'
    @ 0,38 SAY "BATTALION"
ENDIF
IF !(MUNIT)<> 'E'
    @ 0,38 SAY UNITNAME
ENDIF
IF !(MPLAT)<> 'E'.AND. !(MUNIT)<> 'E'
    @ 0,46 SAY PLATNAME
ENDIF
@ 2,10 SAY "MOS"
@ 2,30 SAY "RANK"
@ 2,55 SAY "TOTAL"
STORE 4 TO ROW
DO WHILE .NOT. EOF
    STORE PRIMEMOS TO MOS
    STORE RANK TO RK
    STORE 0 TO COUNT
    DO CASE
        CASE !(MUNIT)='E'
            DO WHILE PRIMEMOS=MOS .AND. RANK=RK .AND. .NOT.;
            EOF
                STORE COUNT+1 TO COUNT
                SKIP
            ENDDO
        CASE !(MPLAT)='E'
            DO WHILE PRIMEMOS=MOS .AND. RANK=RK .AND. .NOT.;
            EOF
                IF COMPANY=UNITNAME
                    STORE COUNT+1 TO COUNT
                ENDIF
                SKIP
            ENDDO
        OTHERWISE
            DO WHILE PRIMEMOS=MOS .AND. RANK=RK .AND. .NOT.;
            EOF
                IF COMPANY=UNITNAME .AND. PLATOON=PLATNAME
                    STORE COUNT+1 TO COUNT
                ENDIF
                SKIP
            ENDDO
```

```
        ENDCASE
        IF CCUNT > 0
            @ ROW,10 SAY MOS
            @ ROW,30 SAY RK
            @ ROW,50 SAY CCUNT
            STCRE ROW+2 TO ROW
        ENDIF
        IF ROW > 20
            @ 23,0
            ACCEPT "PRESS 'ENTER' TC CONTINUE" TO PROCEED
            ERASE
            STCRE 4 TO ROW
            @ 0,20 SAY "MOS STATUS REPORT"
            IF !(MUNIT)='E'
                @ 0,38 SAY "BATTALION"
            ENDIF
            IF !(MUNIT)<> 'E'
                @ C,38 SAY UNITNAME
            ENDIF
            IF !(MPLAT)<> 'E'.AND. !(MUNIT) <> 'E'
                @ 0,46 SAY PLATNAME
            ENDIF
            @ 2,10 SAY "MOS"
            @ 2,30 SAY "RANK"
            @ 2,55 SAY "TOTAL"
        ENDIF
ENDDC
RELEASE PROCEED,ROW,MCS,RK,COUNT,UNITNAME,PLATNAME
USE
RETURN
```

C. MCS ROSTER ROUTINE

```
* ROUTINE NAME: MOSRCST.PRG
* MODULE NAME: STANDARD REPCRT GENERATOR
* VERSICN: 5.9.0
* AUTHOR: R. E. PRUIETT
* DATE: 6NOV83
* VARIABLES USED: MUNIT, MPLAT, ONECO, TWOCO, THREECO,
* FOURCO, ONEPLT, TWOELT, THREEPLT, FOURPLT
* VARIABIES MODIFIED: NONE
* VARIABLES CREATED: NONE
* VARIABLES RELEASED: MUNIT, MPIAT
* FILES (OPENED/CLOSED): A:PERS INDEX A:MOSNDX
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: STDRPT.PRG
* DESCRIPTICN: THIS IS A CONTRCL ROUTINE WHICH CREATES THE
* PERSCNNEL ROSTER FCR THE UNIT SPECIFIED BY THE USER'S
* RESECNSE TO THE SLCTUNIT MENU(5.1.0).
ERASE
USE A:PERS INDEX A:MCSNDX
DO CASE
    CASE !(MUNIT) = 'E'
        REPORT FORM B:MCSRPT
    CASE !(MUNIT) = 'A'.AND. !(MPLAT) = 'E'
        REPORT FORM B:MCSRPT FCR CCMPANY = ONECO
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'A'
        REPORT FORM B:MCSRPT FOR COMPANY = ONECO .AND.;
        PLATCON = ONEPLT
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'B'
        REPORT FORM B:MCSRPT FOR COMPANY = ONECO .AND.;
        PLATCON = TWOPLT
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'C'
        REPORT FORM B:MCSRPT FOR COMPANY = ONECO .AND.;
        PLATCON = THREEPLT
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'D'
        REPORT FORM B:MOSRPT FOR COMPANY = ONECO .AND.;
        PLATCON = FOURPLT
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'E'
        REPORT FORM B:MCSRPT FOR COMPANY = TWOCO
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'A'
        REPORT FORM B:MCSRPT FOR COMPANY = TWOCO .AND.;
        PLATCON = ONEPLT
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'B'
        REPORT FORM B:MCSRPT FOR COMPANY = TWOCO .AND.;
        PLATCON = TWOPLT
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'C'
        REPORT FORM B:MCSRPT FOR COMPANY = TWOCO .AND.;
        PLATCON = THREEPLT
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'D'
        REPORT FORM B:MOSRPT FOR COMPANY = TWOCO .AND.;
        PLATCON = FOURPLT
    CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'E'
        REPORT FORM B:MCSRPT FCR COMPANY = THREECO
    CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'A'
        REPORT FORM B:MOSRPT FCR COMPANY = THREECO .AND.;
        PLATCON = CNEPLT
    CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'B'
        REPORT FORM B:MCSRPT FOR COMPANY = THREECO .AND.;
        PLATCON = TWOPLT
    CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'C'
        REPORT FORM B:MOSRPT FCR COMPANY = THREECO .AND.;
        PLATCON = THREEPLT
    CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'D'
        REPORT FORM B:MCSRPT FCR COMPANY = THREECO .AND.;
        PLATCON = FOURPLT
    CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'E'
        REPORT FORM B:MCSRPT FOR COMPANY = FOURCO
    CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'A'
```

```
          REPORT FORM B:MCSRPT FOR COMPANY = FOURCO .AND.;
          FLATCCN = ONEPIT
     CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'B'
          REPORT FORM B:MCSRPT FOR COMPANY = FOURCO .AND.;
          FLATCCN = TWOPIT
     CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'C'
          REPORT FORM B:MCSRPT FOR COMPANY = FOURCO .AND.;
          FLATCCN = THREEPIT
     CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'D'
          REPORT FORM B:MCSRPT FOR COMPANY = FOURCO .AND.;
          FLATCCN = FOURPIT
ENDCASE
USE
RELEASE MUNIT, MPLAT
RETURN
```

E. PERSONNEL DATA ROUTINE

```
* ROUTINE NAME: PERSDATA.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.10.0
* AUTHOR: R. E. PRUIETT
* DATE: 21NOV83
* VARIABLES USED: MUNIT, MPLAT, ONECO, TWOCO, THREECO,
* FOURCO, ONEPLT, TWOPLT, THREEPLT, FOURPLT
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: COUNT, PROCEED
* VARIABLES RELEASED: COUNT, PROCEED
* FILES (OPENED/CLOSED): A:PERS INDEX A:ALPHPERS
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: STDRPT.PRG
* DESCRIPTION: THIS IS A CONTROL ROUTINE WHICH CREATES THE
* PERSONNEL ROSTER FOR THE UNIT SPECIFIED BY THE USER'S
* RESPONSE TO THE SLCTUNIT MENU(5.1.0).

ERASE
USE A:PERS INDEX A:ALPHPERS
GOTO TOP
STORE 0 TO COUNT
DO WHILE .NOT. EOF
DO CASE
    CASE !(MUNIT) = 'E'
        DO PERSRPT
        STORE COUNT + 1 TO COUNT
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'E'
        IF COMPANY = ONECO
            DO PERSRPT
            STORE COUNT + 1 TO COUNT
        ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'A'
        IF COMPANY = ONECO .AND. PLATOON = ONEPLT
            DO PERSRPT
            STORE COUNT + 1 TO COUNT
        ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'B'
        IF COMPANY = ONECO .AND. PLATOON = TWOPLT
            DO PERSRPT
            STORE COUNT + 1 TO COUNT
        ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'C'
        IF COMPANY = ONECO .AND. PLATOON = THREEPLT
            DO PERSRPT
            STORE COUNT + 1 TO COUNT
        ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'D'
        IF COMPANY = ONECO .AND. PLATOON = FOURPLT
            DO PERSRPT
            STORE COUNT + 1 TO COUNT
        ENDIF
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'E'
        IF COMPANY = TWOCO
            DO PERSRPT
            STORE COUNT + 1 TO COUNT
        ENDIF
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'A'
        IF COMPANY = TWOCO .AND. PLATOON = ONEPLT
            DO PERSRPT
            STORE COUNT + 1 TO COUNT
        ENDIF
    CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'B'
        IF COMPANY = TWOCO .AND. PLATOON = TWOPLT
            DO PERSRPT
            STORE COUNT + 1 TO COUNT
        ENDIF
```

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```
        CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'C'
            IF COMPANY = TWOCO .AND. PLATOON = THREEPLT
                DO PERSRPT
                STORE COUNT + 1 TO COUNT
            ENDIF
        CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'D'
            IF COMPANY = TWOCO .AND. PLATOON = FOURPLT
                STORE COUNT + 1 TO COUNT
            ENDIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'E'
            IF COMPANY = THREECO
                DO PERSRPT
                STORE COUNT + 1 TO COUNT
            ENDIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'A'
            IF COMPANY = THREECO .AND. PLATOON = ONEPLT
                DO PERSRPT
                STORE COUNT + 1 TO COUNT
            ENDIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'B'
            IF COMPANY = THREECO .AND. PLATOON = TWOPLT
                DO PERSRPT
                STORE COUNT + 1 TO COUNT
            ENDIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'C'
            IF COMPANY = THREECO .AND. PLATOON = THREEPLT
                DO PERSRPT
                STORE COUNT + 1 TO COUNT
            ENDIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'D'
            IF COMPANY = THREECO .AND. PLATOON = FOURPLT
                DO PERSRPT
                STORE COUNT + 1 TO COUNT
            ENDIF
        CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'E'
            IF COMPANY = FOURCO
                DO PERSRPT
                STORE COUNT + 1 TO COUNT
            ENDIF
        CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'A'
            IF COMPANY = FOURCO .AND. PLATOON = ONEPLT
                DO PERSRPT
                STORE COUNT + 1 TO COUNT
            ENDIF
        CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'B'
            IF COMPANY = FOURCO .AND. PLATOON = TWOPLT
            DO PERSRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
        CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'C'
            IF COMPANY = FOURCO .AND. PLATOON = THREEPLT
                DO PERSRPT
                STORE COUNT + 1 TO COUNT
            ENDIF
        CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'D'
            IF COMPANY = FOURCO .AND. PLATOON = FOURPLT
                DO PERSRPT
                STORE COUNT + 1 TO COUNT
            ENDIF
ENDCASE
IF COUNT = 4
    @ 22,0
    ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
    STORE 0 TO COUNT
    ERASE
ENDIF
SKIP
ENDDO
```

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```
RELEASE COUNT, PROCEED
USE
RETURN
```

Q.   PERSONNEL DATA FORMAT ROUTINE

```
* ROUTINE NAME: PERSFPT.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.10.1.0
* DATE:21NOV83
* VARIABLES USED: COUNT
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: NONE
* VARIABLES RELEASED: NONE
* FILES (OPENED/CLOSED): NONE
* USING SUBROUTINES: PERSDATA.PRG
* DESCRIPTION: THIS IS A REPORT FORMAT COMMAND FILE WHICH
* DISPLAYS THE FORMAT FOR THE PERSONAL DATA REPORT AND GETS
* THE FIELD VARIABLES FROM THE PERS.DBF WHICH IS OPENED AND
* CLOSED IN PERSDATA.PRG.
*
@ COUNT + 6,0 SAY "NAME "
@ $,5 SAY NAME
@ $,42 SAY " SSN "
@ $,47 SAY SSN
@ $+1,0 SAY "RANK "
@ $,5 SAY RANK
@ $,20 SAY " PRIMARY MOS "
@ $,33 SAY PRIMEMOS
@ $,42 SAY " SECONDARY MOS "
@ $,70 SAY SECMOS
@ $+1,0 SAY "COMPANY "
@ $,8 SAY COMPANY
@ $,20 SAY "PLATOON "
@ $,30 SAY PLATOON
@ $,42 SAY " JOIN DATE "
@ $,53 SAY JOINDATE
@ $,62 SAY " EAS "
@ $,67 SAY EAS
@ $+1,0 SAY "BIRTHDATE"
@ $,10 SAY BIRTHDATE
@ $,20 SAY " HEIGHT"
@ $,28 SAY HEIGHT
@ $,42 SAY " WEIGHT"
@ $,50 SAY WEIGHT
@ $,62 SAY " COMMENTS:"
@ $,73 SAY COMMENT
RETURN
```

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B. EST STATUS ROUTINE

```
* ROUTINE NAME: ESTSTAT.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.11.0
* AUTHOR: R. E. PRUIETT
* DATE: 22DEC83
* VARIABLES USED: MUNIT, MPLAT, ONECO, TWOCO, THREECO,
* FOURCO,ONEPLT, TWOPLT, THREEPLT, FOURPLT, ZZTOTAL, ZZCOC,
* ZZHIS, ZZCOD, ZZINT, ZZAID, ZZUNI, ZZNBC, ZZMKS, ZZTAC,
* ZZPFT1, ZZPFT2
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED:  PROCEED
* VARIABLES RELEASED: ZZ???????
* FILES (OPENED/CLOSED): B:EST, A:PERS (ALL FILES CLOSED)
* TEMP FILES CREATED: TEMP (CREATED AND DELETED)
* USING SUBROUTINES: STDRPT.PRG
* DESCRIPTION: THIS ROUTINE CREATES A TEMPORARY FILE THAT
* INCLUDES THE ALL ESSENTIAL SUBJECT AND PFT FIELDS FROM
* THE EST.DEF FOR MEMBERS IN A USER SPECIFIED UNIT.  FROM
* THIS FILE IT COUNTS THE TOTAL NUMBER OF UNIT MEMBERS THAT
* HAVE COMPLETED ALL ELEMENTS IN EACH TRAINING CATEGORY.
* THE "EST STATUS REPORT" IS DISPLAYED WHICH INCLUDES
* TOTALS FOR EACH TRAINING CATEGORY AND THE PERCENTAGE
* COMPLETED FOR EACH TRAINING CATEGORY.

ERASE
DO CASE
   CASE !(MUNIT) = 'E'
       USE B:EST
       DO CNTEST
   CASE !(MUNIT) = 'A'.AND. !(MPLAT) = 'E'
       SELECT PRIMARY
       USE A:PERS
       SELECT SECONDARY
       USE E:EST
       SELECT PRIMARY
       JOIN TO TEMP FOR (P.COMPANY=ONECO .AND. P.SSN=SSN);
       FIELDS COC,HIS,COD,INT,AID,UNI,PFT1CLSS,PFT2CLSS,
       NEC,MKS,TAC
       USE TEMP
       DO CNTEST
       DELETE FILE TEMP
   CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'A'
       SELECT PRIMARY
       USE A:PERS
       SELECT SECONDARY
       USE E:EST
       SELECT PRIMARY
       JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON =;
       ONEPLT .AND. P.SSN=SSN) FIELDS COC,HIS,COD,INT,AID,;
       UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
       USE TEMP
       DO CNTEST
       DELETE FILE TEMP
   CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'B'
       SELECT PRIMARY
       USE A:PERS
       SELECT SECONDARY
       USE E:EST
       SELECT PRIMARY
       JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON;
       =TWOPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,INT,;
       AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
       USE TEMP
       DO CNTEST
       DELETE FILE TEMP
   CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'C'
```

```
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON;
      = THREEPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,;
      INT,AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
      USE TEMP
      DO CNTEST
      DELETE FILE TEMP
CASE !(MUNIT) = 'B' .AND. !(MPLAT) = 'D'
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.COMPANY =ONECO .AND. P.PLATOON;
      =FOURPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,INT,;
      AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
      USE TEMP
      DO CNTEST
      DELETE FILE TEMP
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'Z'
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.COMPANY=TWOCO .AND. P.SSN=SSN);
      FIELDS COC,HIS,COD,INT,AID,UNI,PFT1CLSS,;
      PFT2CLSS,NBC,MKS,TAC
      USE TEMP
      DO CNTEST
      DELETE FILE TEMP
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'A'
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.COMPANY =TWOCO .AND. P.PLATOON =;
      ONEPLT .AND. P.SSN=SSN) FIELDS COC,HIS,COD,INT,AID,;
      UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
      USE TEMP
      DO CNTEST
      DELETE FILE TEMP
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'B'
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.COMPANY =TWOCO .AND. P.PLATOON;
      =TWOPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,INT,;
      AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
      USE TEMP
      DO CNTEST
      DELETE FILE TEMP
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'C'
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.COMPANY =TWOCO .AND. P.PLATOON;
      =THREEPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,;
      INT,AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
      USE TEMP
```

```
      DO CNTEST
      DELETE FILE TEMP
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'D'
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.CCMPANY =TWOCO .AND. P.PLATOON =;
      FOURPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,INT,;
      AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
      USE TEMP
      DO CNTEST
      DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'E'
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.CCMPANY =THREECO .AND. P.SSN=;
      S.SSN) FIELDS COC,HIS,COD,INT,AID,UNI,PFT1CLSS,;
      PFT2CLSS,NBC,MKS,TAC
      USE TEMP
      DO CNTEST
      DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'A'
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.CCMPANY =THREECO .AND. P.PLATOON;
      = ONEPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,CCD,INT,;
      AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
      USE TEMP
    . DO CNTEST
      DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'B'
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.CCMPANY=THREECO .AND. P.PLATOON;
      = TWOPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,CCD,INT,;
      AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
      USE TEMP
      DO CNTEST
      DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'C'
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.CCMPANY =THREECO .AND. P.PLATOON;
      =THREEPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,INT,;
      AID,UNI,PFT1CLSS,PFT2CISS,NBC,MKS,TAC
      USE TEMP
      DO CNTEST
      DELETE FILE TEMP
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'D'
      SELECT PRIMARY
      USE A:PERS
      SELECT SECONDARY
      USE B:EST
      SELECT PRIMARY
      JOIN TO TEMP FOR (P.CCMPANY=THREECO .AND. P.PLATOON;
```

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```
                = FOURPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,;
          HIS,COD,INT,AID,UNI,PFT1CLSS,PFT2CLSS,NEC,MKS,TAC
             USE TEMP
             DO CNTEST
             DELETE FILE TEMP
        CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'E'
             SELECT PRIMARY
             USE A:PERS
             SELECT SECONDARY
             USE B:EST
             SELECT PRIMARY
             JOIN TO TEMP FOR (P.COMPANY =FOURCO .AND.;
          P.SSN=SSN) FIELDS COC,HIS,COD,INT,AID,UNI,PFT1CLSS,;
          PFT2CLSS,NEC,MKS,TAC
             USE TEMP
             DO CNTEST
             DELETE FILE TEMP
        CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'A'
             SELECT PRIMARY
             USE A:PERS
             SELECT SECONDARY
             USE B:EST
             SELECT PRIMARY
             JOIN TO TEMP FOR (P.COMPANY =FOURCO .AND. P.PLATOON;
          =ONEPLT .AND. ONEPLT .AND. P.SSN=S.SSN) FIELDS COC,;
          HIS,COD,INT,AID,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
             USE TEMP
             DO CNTEST
             DELETE FILE TEMP
        CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'B'
             SELECT PRIMARY
             USE A:PERS
             SELECT SECONDARY
             USE B:EST
             SELECT PRIMARY
             JOIN TO TEMP FOR (P.COMPANY =FOURCO .AND. P.PLATOON;
          =TWOPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,INT,;
          AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
             USE TEMP
             DO CNTEST
             DELETE FILE TEMP
        CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'C'
             SELECT PRIMARY
             USE A:PERS
             SELECT SECONDARY
             USE B:EST
             SELECT PRIMARY
             JOIN TO TEMP FOR (P.COMPANY =FOURCO .AND. P.PLATOON;
          = THREEPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,;
          INT,AID,UNI,PFT1CLSS,;
          PFT2CLSS,NBC,MKS,TAC
             USE TEMP
             DO CNTEST
             DELETE FILE TEMP
        CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'D'
             SELECT PRIMARY
             USE A:PERS
             SELECT SECONDARY
             USE B:EST
             SELECT PRIMARY
             JOIN TO TEMP FOR (P.COMPANY =FOURCO .AND. P.PLATOON;
          =FOURPLT .AND. P.SSN=S.SSN) FIELDS COC,HIS,COD,INT,;
          AID,UNI,PFT1CLSS,PFT2CLSS,NBC,MKS,TAC
             USE TEMP
             DO CNTEST
             DELETE FILE TEMP
ENDCASE
@ 0,25 SAY "EST STATUS REPORT"
@ 2,0 SAY "CODE OF CONDUCT..."
```

```
@ 2,25 SAY (ZZTOTAL-ZZCOC)/ZZTOTAL*100 USING '999'
@ 2,30 SAY "PERCENT CCMPLETED ..."
@ 2,52 SAY ZZTOTAL-ZZCOC USING '999'
@ 4,0 SAY "MARINE COFPS HISTORY..."
@ 4,25 SAY (ZZTOTAL-ZZHIS)/ZZTOTAL*100 USING '999'
@ 4,30 SAY "PERCENT CCMPLETED ..."
@ 4,52 SAY ZZTOTAL-ZZHIS USING '999'
@ 6,0 SAY "CLOSE ORDER DRILL..."
@ 6,25 SAY (ZZTOTAL-ZZCOD)/ZZTCTAL*100 USING '999'
@ 6,30 SAY "PERCENT CCMPLETED ..."
@ 6,52 SAY ZZTOTAL-ZZCOD USING '999'
@ 8,0 SAY "INTERIOR GUARD..."
@ 8,25 SAY (ZZTOTAL-ZZINT)/ZZTOTAL*100 USING '999'
@ 8,30 SAY "PERCENT CCMPLETED ..."
@ 8,52 SAY ZZTOTAL-ZZINT USING '999'
@ 10,0 SAY "FIRST AID..."
@ 10,25 SAY (ZZTOTAL-ZZAID)/ZZTOTAL*100 USING '999'
@ 10,30 SAY "PERCENT CCMPLETED ..."
@ 10,52 SAY ZZTOTAL-ZZAID USING '999'
@ 12,0 SAY "EQUIPMENT/UNIFORMS..."
@ 12,25 SAY (ZZTOTAL-ZZUNI)/ZZTOTAL*100 USING '999'
@ 12,30 SAY "PERCENT COMPLETED ..."
@ 12,52 SAY ZZTOTAL-ZZUNI USING '999'
@ 14,0 SAY "NBC..."
@ 14,25 SAY (ZZTOTAL-ZZNBC)/ZZTOTAL*100 USING '999'
@ 14,30 SAY "PERCENT COMPLETED ..."
@ 14,52 SAY ZZTOTAL-ZZNBC USING '999'
@ 16,0 SAY "MARKSMANSHIP..."
@ 16,25 SAY (ZZTOTAL-ZZMKS)/ZZTOTAL*100 USING '999'
@ 16,30 SAY "PERCENT CCMPLETED ..."
@ 16,52 SAY ZZTOTAL-ZZMKS USING '999'
@ 18,0 SAY "INDIVID TAC MEASURES..."
@ 18,25 SAY (ZZTOTAL-ZZTAC)/ZZTOTAL*100 USING '999'
@ 18,30 SAY "PERCENT CCMPLETED ..."
@ 18,52 SAY ZZTOTAL-ZZTAC USING '999'
@ 20,0 SAY "PFT1..."
@ 20,24 SAY ((ZZTOTAL-ZZPFT1)/ZZTOTAL)*100 USING '999'
@ 20,31 SAY "PERCENT COMPLETED PFT ONE..."
@ 20,62 SAY (ZZTOTAL-ZZPFT1) USING '999'
@ 22,0 SAY "PFT2..."
@ 22,24 SAY ((ZZTOTAL-ZZPFT2)/ZZTOTAL)*100 USING '999'
@ 22,31 SAY "PERCENT CCMPLETED PFT TWO..."
@ 22,62 SAY (ZZTOTAL-ZZPFT2) USING '999'
ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
RELEASE ALL LIKE ZZ??????
USE
RETURN
```

S. EST COUNT ROUTINE

```
* ROUTINE NAME: CNTEST.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.11.1.0
* AUTHOR: R.E. PRUIETT
* DATE: 12DEC83
* VARIABLES USED: ZZTOTAL, ZZCOC, ZZHIS, ZZCOD, ZZINT,
* ZZAID, ZZUNI, ZZNBC, ZZMKS, ZZTAC, ZZPFT1, ZZPFT2
* VARIABLES MODIFIED:
* VARIABLES CREATED: NONE
* VARIABLES RELEASED: NONE
* FILES OPENED/CLOSED: NONE
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: ESTSTAT.PRG
* DESCRIPTION: THIS IS A SIMPLE ROUTINE THAT COUNTS THE
* TOTAL TRAINING CATEGORIES THAT INCLUDE A "*" (I.E. COUNTS
* THE NUMBER OF TRAINING CATEGORIES THAT CURRENTLY INCLUDE
* ONE OR MORE TRAINING ELEMENTS THAT HAVE NOT BEEN
* COMPLETED.
*
COUNT TO ZZTOTAL
COUNT FOR '*'$(COC)      TO ZZCOC
COUNT FOR '*'$(HIS)      TO ZZHIS
COUNT FOR '*'$(COD)      TO ZZCOD
COUNT FOR '*'$(INT)      TO ZZINT
COUNT FOR '*'$(AID)      TO ZZAID
COUNT FOR '*'$(UNI)      TO ZZUNI
COUNT FOR '*'$(NBC)      TO ZZNBC
COUNT FOR '*'$(MKS)      TO ZZMKS
COUNT FOR '*'$(TAC)      TO ZZTAC
COUNT FOR '*'$(PFT1CISS) TO ZZPFT1
COUNT FOR '*'$(PFT2CISS) TO ZZPFT2
RETURN
```

T. EST ROSTER ROUTINE

```
* ROUTINE NAME: ESTRCST.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.12.0
* AUTHOR: R. E. PRUIETT
* DATE: 20DEC83
* VARIABLES USED: MUNIT, MPLAT, ONECO, TWOCO, THREECO,
* FOURCO, ONEPLT, TWOPLT, THREEPLT, FOURPLT
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: COUNT, PROCEED
* VARIABLES RELEASED: COUNT, PROCEED
* FILES (OPENED/CLOSED): A:PERS INDEX A:ALPHPERS, B:EST
* INDEX B:ESTSSN (ALL FILES ARE CLOSED).
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: STDRPT.PRG
* DESCRIPTION: THIS IS A CONTROL ROUTINE WHICH CREATES THE
* PERSONNEL ROSTER FOR THE UNIT SPECIFIED BY THE USER'S
* RESPONSE TO THE SLCTUNIT MENU(5.1.0).

ERASE
SELECT PRIMARY
USE A:PERS INDEX A:ALPHPERS
SELECT SECONDARY
USE B:EST INDEX B:ESTSSN
SELECT PRIMARY
GOTO TOP
STORE 0 TO COUNT
DO WHILE .NOT. EOF
DO CASE
    CASE !(MUNIT) = 'E'
        DO ESTRPT
        STORE COUNT + 1 TO COUNT
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'E'
        IF COMPANY = ONECO
            DO ESTRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'A'
        IF COMPANY = ONECO .AND. PLATOON = ONEPLT
            DO ESTRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'B'
        IF COMPANY = ONECO .AND. PLATOON = TWOPLT
            DO ESTRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'C'
        IF COMPANY = ONECO .AND. PLATOON = THREEPLT
            DO ESTRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
    CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'D'
        IF COMPANY = ONECO .AND. PLATOON = FOURPLT
            DO ESTRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
    CASE !(MUNIT) = 'B' .AND. !(MPLAT) = 'E'
        IF COMPANY = TWOCO
            DO ESTRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
    CASE !(MUNIT) = 'B' .AND. !(MPLAT) = 'A'
        IF COMPANY = TWOCO .AND. PLATOON = ONEPLT
            DO ESTRPT
            STORE COUNT + 1 TO COUNT
            ENDIF
```

```
        CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'B'
            IF COMPANY = TWOCO .AND. PLATOON = TWOPLT
                DO ESTRPT
                STCRE CCUNT + 1 TO CCUNT
                ENCIF
        CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'C'
            IF CCMPANY = TWOCO .AND. PLATOON = THREEPLT
                DO ESTRPT
                STORE COUNT + 1 TO COUNT
                ENCIF
        CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'D'
            IF CCMPANY = TWCCO .AND. PLATOON = FOURPLT
                DO ESTRPT
                STORE CCUNT + 1 TO CCUNT
                ENDIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'E'
            IF COMPANY = TEREECO
                DO ESTRPT
                STCRE CCUNT + 1 TO COUNT
                ENDIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'A'
            IF CCMPANY = THREECO .AND. PLATOON = ONEPLT
                DO ESTRPT
                STORE CCUNT + 1 TO CCUNT
                ENCIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'B'
            IF COMPANY = TFREECO .AND. PLATOON = TWOPLT
                DO ESTRPT
                STORE COUNT + 1 TO COUNT
                ENCIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'C'
            IF CCMPANY = THREECO .AND. PLATOON = THREEPLT
                DO ESTRPT
                STORE CCUNT + 1 TO CCUNT
                ENCIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'D'
            IF CCMPANY = TEREECO .AND. PLATOON = FOURPLT
                DO ESTRPT
                STORE COUNT + 1 TO COUNT
                ENDIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'E'
            IF CCMPANY = FCURCO
                DO ESTRPT
                STCRE CCUNT + 1 TO CCUNT
                ENCIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'A'
            IF COMPANY = FCURCO .AND. PLATOON = ONEPLT
                DO ESTRPT
                STORE COUNT + 1 TO COUNT
                ENDIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'B'
            IF CCMPANY = FCURCO .AND. PLATOON = TWOPLT
            DO ESTRPT
            STCRE COUNT + 1 TO COUNT
                ENCIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'C'
            IF COMPANY = FCURCO .AND. PLATOON = THREEPLT
                DO ESTRPT
                STORE COUNT + 1 TO COUNT
                ENDIF
        CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'D'
            IF COMPANY = FCURCO .AND. PLATOON = FOURPLT
                DO ESTRPT
                STCRE CCUNT + 1 TO CCUNT
                ENCIF
ENDCASE
IF CCUNT = 4
    @ 22,C
    ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
```

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```
     STORE 0 TO COUNT
     ERASE
ENDIF
SELECT PRIMARY
SKIP
ENDDO
RELEASE COUNT,PROCEED
USE
RETURN
```

U. EST REPORT FORMAT ROUTINE

```
* ROUTINE NAME: ESTRPT.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.12.1.0
* AUTHOR: R.E. PRUIETT
* DATE: 14NOV83
* VARIABLES USED: NONE
* VARIABLES MODIFIED:NONE
* VARIABLES CREATED: ROW, MSSN
* VARIABLES RELEASED:ROW
* FILES OPENED/CLOSED: NONE
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: ESTROST.PRG
* DESCRIPTION: THIS ROUTINE USES. FORMATS AND
* DISPLAYS THE EST ROSTER REPORT.
STORE (CCUNT * 6) TO ROW
@ ROW,0 SAY NAME
@ ROW,30 SAY RANK
@ ROW,33 SAY COMPANY
STORE SSN TO MSSN
SELECT SECONDARY
FIND &MSSN
@ ROW + 1,0 SAY "CODE OF CONDUCT "
@ ROW + 1,16 SAY COC
@ ROW + 1,22 SAY "MARCOR HIS "
@ ROW + 1,35 SAY HIS
@ ROW + 1,43 SAY "MARKSMANSHIP "
@ ROW + 1,56 SAY MKS
@ ROW + 1,67 SAY "DRILL "
@ ROW + 1,74 SAY COD
@ ROW + 2,0 SAY "INTERIOR GUARD "
@ ROW + 2,16 SAY INT
@ ROW + 2,22 SAY "MARKSMANSHIP "
@ ROW + 2,35 SAY MKS
@ ROW + 2,43 SAY "TAC MEASURES "
@ ROW + 2,56 SAY TAC
@ ROW + 2,67 SAY "NBC "
@ ROW + 2,74 SAY NBC
@ ROW + 3,0 SAY "PFT1 "
@ ROW + 3,6 SAY PFT1CISS
@ ROW + 3,10 SAY "PFT2 "
@ ROW + 3,16 SAY PFT2CLSS
@ ROW + 3,22 SAY "EQUIP/UNIFORM "
@ ROW + 3,36 SAY UNI
@ ROW + 3,43 SAY "FIRST AID "
@ ROW + 3,54 SAY AID
RELEASE ROW
RETURN
```

V. SWIM QUALIFICATION ROUTINE

```
* ROUTINE NAME: SWIMQUAL.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.13.0
* AUTHOR: R. E. PRUIETT
* DATE: 20DEC83
* VARIABLES USED: MUNIT, MPLAT, ONECO, TWOCO, THREECO,
* FOURCO, ONEPLT, TWOPLT, THREEPLT, FOURPLT
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: PROCEED, COUNT, S1TOTAL, S2TOTAL,
* S3TOTAL, UQTOTAL
* VARIABLES RELEASED: COUNT, PROCEED, MSSN, S1TOTAL,
* S2TOTAL, S3TOTAL, UQTOTAL, RCW
* FILES (OPENED/CLOSED): A:PERS INDEX A:ALPHPERS
* TEMP FILES CREATED: NONE
* USING SUBROUTINES: SIDRPT.PRG
* DESCRIPTION: THIS ROUTINE DISPLAYS THE SWIM QUAL REPORT
* FOR THE SELECTED UNIT.  THE SWIM QUAL REPORT CONSIST OF
* EACH MARINES NAME,RANK, UNIT NAME, AND SWIMMING
* QUALIFICATION STATUS.  AT THE END OF THE REPORT, SUMMARY
* DATA IS DISPLAYED WHICH INCLUDES THE TOTALS FOR EACH
* QUALIFICATION CATEGORY AND THE OVERALL TOTAL FOR THE
* UNIT.

ERASE
@ 12,27 SAY "SWIM QUALIFICATION REPORT"
@ 22,C
ACCEPT "PRESS 'ENTER' KEY TO CONTINUE" TO PROCEED
ERASE
SELECT PRIMARY
USE A:PERS INDEX A:ALPHPERS
GOTO TOP
STORE 0 TO S1TOTAL
STORE 0 TO S2TOTAL
STORE 0 TO S3TOTAL
STORE 0 TO UQTOTAL
STORE 0 TO COUNT
DO WHILE .NOT. EOF
DO CASE
   CASE !(MUNIT) = 'E'
      DO SWIMRPT
      STORE COUNT + 1 TO COUNT
   CASE !(MUNIT) = 'A'.AND. !(MPLAT) = 'E'
      IF COMPANY = ONECO
         DO SWIMRPT
         STORE COUNT + 1 TO COUNT
         ENDIF
   CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'A'
      IF COMPANY = ONECO .AND. PLATOON = ONEPLT
         DO SWIMRPT
         STORE COUNT + 1 TO COUNT
         ENDIF
   CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'B'
      IF COMPANY = ONECO .AND. PLATOON = TWOPLT
         DO SWIMRPT
         STORE COUNT + 1 TO COUNT
         ENDIF
   CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'C'
      IF COMPANY = ONECO .AND. PLATOON = THREEPLT
         DO SWIMRPT
         STORE COUNT + 1 TO COUNT
         ENDIF
   CASE !(MUNIT) = 'A' .AND. !(MPLAT) = 'D'
      IF COMPANY = ONECO .AND. PLATOON = FOURPLT
         DO SWIMRPT
         STORE COUNT + 1 TO COUNT
         ENDIF
```

```
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'E'
   IF COMPANY = TWCCO
      DO SWIMRPT
      STORE CCUNT + 1 TO CCUNT
      ENDIF
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'A'
   IF COMPANY = TWCCO .AND. PLATOON = ONEPLT
      DO SWIMRPT
      STORE COUNT + 1 TO COUNT
      ENDIF
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'B'
   IF COMPANY = TWCCO .AND. PLATOON = TWOPLT
      DO SWIMRPT
      STORE CCUNT + 1 TO CCUNT
      ENDIF
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'C'
   IF COMPANY = TWOCO .AND. PLATOON = THREEPLT
      DO SWIMRPT
      STORE COUNT + 1 TO COUNT
      ENDIF
CASE !(MUNIT) = 'E' .AND. !(MPLAT) = 'D'
   IF COMPANY = TWCCO .AND. PLATOON = FOURPLT
      DO SWIMRPT
      STORE CCUNT + 1 TO CCUNT
      ENDIF
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'E'
   IF COMPANY = THREECO
      DO SWIMRPT
      STORE CCUNT + 1 TO COUNT
      ENDIF
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'A'
   IF COMPANY = THREECO .AND. PLATOON = ONEPLT
      DO SWIMRPT
      STORE CCUNT + 1 TO CCUNT
      ENDIF
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'B'
   IF COMPANY = THREECO .AND. PLATOON = TWOPLT
      DO SWIMRPT
      STORE COUNT + 1 TO COUNT
      ENDIF
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'C'
   IF COMPANY = THREECO .AND. PLATOON = THREEPLT
      DO SWIMRPT
      STORE CCUNT + 1 TO CCUNT
      ENDIF
CASE !(MUNIT) = 'C' .AND. !(MPLAT) = 'D'
   IF COMPANY = THREECO .AND. PLATOON = FOURPLT
      DO SWIMRPT
      STORE CCUNT + 1 TO COUNT
      ENDIF
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'E'
   IF COMPANY = FCURCO
      DO SWIMRPT
      STORE CCUNT + 1 TO CCUNT
      ENDIF
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'A'
   IF COMPANY = FCURCO .AND. PLATOON = ONEPLT
      DO SWIMRPT
      STORE COUNT + 1 TO COUNT
      ENDIF
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'B'
   IF COMPANY = FCURCO .AND. PLATOON = TWOPLT
   DO SWIMRPT
   STORE COUNT + 1 TO COUNT
   ENDIF
CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'C'
   IF COMPANY = FCURCO .AND. PLATOON = THREEPLT
      DO SWIMRPT
      STORE COUNT + 1 TO COUNT
```

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```
            ENDIF
       CASE !(MUNIT) = 'D' .AND. !(MPLAT) = 'D'
          IF COMPANY = FOURCO .AND. PLATOON = FOURPLT
             DO SWIMRPT
             STORE CCUNT + 1 TO CCUNT
             ENDIF
ENDCASE
IF CCUNT = 7
     @ 22,0
     ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
     STORE 0 TO COUNT
     ERASE
ENDIF
SELECT PRIMARY
SKIP
ENDDO
@ 22,0
ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
ERASE
@ 2,20 SAY "SUMMARY DATA"
@ 4,1 SAY "SWIM QUALIFICATION"
@ 4,25 SAY "TOTAL"
@ 6,1 SAY "S1"
@ 6,25 SAY S1TOTAL USING '999'
@ 7,1 SAY "S2"
@ 7,25 SAY S2TOTAL USING '999'
@ 8,1 SAY "S3"
@ 8,25 SAY S3TOTAL USING '999'
@ 9,1 SAY "UNQUALIFIED"
@ 9,25 SAY UQTOTAL USING '999'
@ 10,25 SAY "         "
@ 12,25 SAY S1TOTAL+S2TOTAL+S3TOTAL+UQTOTAL USING '9999'
@ 22,0
ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCFED
RELEASE CCUNT,PROCEED, MSSN,S1TOTAL,S3TOTAL,;
UQTOTAL,ROW
USE
RETURN
```

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W. SWIM REPORT ROUTINE

```
* ROUTINE NAME: SWIMRET.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.13.1.0
* AUTHOR: R.E. PRUIETT
* DATE: 12DEC83
* VARIABLES USED:NONE
* VARIABLES MODIFIED:NONE
* VARIABLES CREATED:ROW, MSSN, S1TOTAL, S2TOTAL, S3TOTAL,
* UQTOTAL
* VARIABLES RELEASED:NONE
* FILES OPENED/CLOSED:QUAL INDEX QUALSSN
* TEMP FILES CREATED:NONE
* USING SUBROUTINES: SWIMQUAL.PRG
* DESCRIPTION: THIS ROUTINE COUNTS AND STORES THE NUMBER OF
* PERSONNEL IN THE SELECTED UNIT THAT ARE IN EACH SWIMMING
* QUALIFICATION CATEGORY.

STORE (COUNT * 3) TO ROW
@ ROW,0 SAY NAME
@ ROW,30 SAY RANK
@ ROW,33 SAY COMPANY
STORE SSN TO MSSN
SELECT SECONDARY
USE B:QUAL INDEX B:QUALSSN
FIND &MSSN
@ ROW+1,0 SAY "SWIM QUAL "
@ ROW+1,10 SAY SWIMQUAL
DO CASE
    CASE SWIMQUAL='S1'
        STORE S1TOTAL + 1 TO S1TOTAL
    CASE SWIMQUAL='S2'
        STORE S2TOTAL + 1 TO S2TOTAL
    CASE SWIMQUAL='S3'
        STORE S3TOTAL + 1 TO S3TOTAL
    CASE SWIMQUAL='UQ'
        STORE UQTOTAL + 1 TO UQTOTAL
ENDCASE
RETURN
```

X. HELP ROUTINE

```
* ROUTINE NAME: HELP.PRG
* MODULE NAME: STANDARD REPORT GENERATOR
* VERSION: 5.14.0
* AUTHOR: R.E. PRUIETT
* DATE: 18JAN84
* VARIABLES USED: NONE
* VARIABLES MODIFIED: NONE
* VARIABLES CREATED: HELOPT, PROCEED
* VARIABLES RELEASED: NONE
* FILES OPENED/CLOSED: NONE
* TEMP FILES CREATED: NONE
* USING ROUTINES: STDRPT
* DESCRIPTION: THIS ROUTINE PROVIDES A FUNCTIONAL
* DESCRIPTION OF  EACH REPORT LISTED IN THE STANDARD REPORT
* SELECTION  MENU.

ERASE
@ 2,35 SAY "HELP MENU"
@ 3,35 SAY "---- ----"
@ 5,20 SAY "A...HELP UNIT ROSTER"
@ 6,20 SAY "B...HELP TRAINING STATUS REPORT"
@ 7,20 SAY "C...HELP TRAINING ROSTER REPORT"
@ 8,20 SAY "D...HELP INDIVIDUAL TRAINING RECORD"
@ 9,20 SAY "E...HELP MARKSMANSHIP STATUS REPORT"
@ 10,20 SAY "F...HELP MARKSMANSHIP ROSTER REPORT"
@ 11,20 SAY "G...HELP MOS STATUS REPORT"
@ 12,20 SAY "H...HELP MOS ROSTER REPORT"
@ 13,20 SAY "I...HELP PERSONAL DATA REPORT"
@ 14,20 SAY "J...HELP EST STATUS REPORT"
@ 15,20 SAY "K...HELP EST ROSTER REPORT"
@ 16,20 SAY "L...HELP SWIM QUALIFICATION REPORT"
@ 22,20
ACCEPT "SELECT OPTION =====>  " TO HELPOPT
ERASE
DO CASE
  CASE !(HELPOPT)= 'A'
TEXT
                    OPTION A...UNIT ROSTER
1.  At the cursor, next to "select option ====>", type the
letter (A-E) that corresponds to the unit desired.  Enter
the letter by pressing the enter key.

2.  If a company was selected (A-D), you will next be asked
to select a subunit.  Enter the appropriate letter.  If you
want the report to include the entire unit selected, enter
"E" (i.e., ALL OF UNIT).

3.  If option "E" (i.e., BATTALION) was selected in the
select unit option, you will go directly to the report and
will not be asked to select a subunit.

4.  The UNIT ROSTER REPORT will display in alphabetic order
the NAME, RANK, and PRIMARY MOS for each member of the
selected unit or subunit.  The screen will scroll
automatically unless stopped from the terminal.

5.  At the end of the report press the enter key to return
to the STANDARD REPORT MENU.
ENDTEXT

CASE !(HELPOPT)= 'B'
TEXT
                    OPTION B...TRAINING STATUS REPORT
1.  At the cursor, next to "select option ====>", type and
enter the letter (A-E) that corresponds to the unit
desired.
```

2. If a company was selected (A-D), you will next be asked
to select a subunit. Enter the appropriate letter. If you
want the report to include the entire unit selected, enter
"E" (i.e., ALL OF UNIT).

3. If option "E" (i.e., BATTALION) was selected in the
select unit option, you will go directly to the report and
will not be asked to select a subunit.

4. A "WORKING" signal on the screen will be shown to
indicate that the computer is searching for the information
you requested.

5. The TRAINING STATUS REPORT provides for all essential
subjects, the PERCENT of the unit that has successfully
completed each training element and the TOTAL number of
unit members that have completed each training element. In
addition, the report includes completion status for PFT1,
PFT2, SWIMQUAL, RIFLE QUAL, and PISTOL QUAL.

6. Press the enter key to return to the STANDARD REPORT
MENU.
ENDTEXT

CASE !(HELPOPT) = 'C'
TEXT
                        OPTION C...TRAINING ROSTER REPORT
1. At the cursor, next to "select option ====>", type the
letter (A-E) that corresponds to the unit desired. Enter
the letter by pressing the enter key.

2. If a company was selected (A-D), you will next be asked
to select a subunit. Enter the appropriate letter. If you
want the report to include the entire unit selected, enter
"E" (i.e., ALL OF UNIT).

3. If option "E" (i.e., BATTALION) was selected in the
select unit option, you will go directly to the report and
will not be asked to select a subunit.

4. The TRAINING ROSTER REPORT heading will appear in the
center of the screen. Press the enter key to begin the
report.
ENDTEXT
@ 22,0
ACCEPT "PRESS 'ENTER' KEY TO CONTINUE" TO PROCEED
ERASE
TEXT

5. The TRAINING ROSTER REPORT displays in alphabetic order
each member of the selected unit or subunit and his
complete training status for the current year. If a
training element has been successfully completed for the
current year, a letter corresponding to that training
element will be shown. A "*" symbol indicates that a
training element has not been completed. For example,
"FIRST AID AE*H**B**DF" indicates that elements ABDEF and H
have been completed and five of the eleven elements have
NOT been completed (i.e., C,G,I,J and K). Four records
will be displayed on the screen and you will be asked to
press the enter key to scroll the report.

6. At the end of the report press the enter key to return
to the STANDARD REPORT MENU.
ENDTEXT

CASE !(HELPOPT) = 'D'
TEXT

OPTION D...INDIVIDUAL TRAINING REPORT
1. At the cursor, next to "select option ====>", type the letter (A-E) that corresponds to the unit desired. Enter the letter by pressing the enter key.

2. If a company was selected (A-D), you will next be asked to select a subunit. Enter the appropriate letter. If you want the report to include the entire unit selected, enter "E" (i.e., ALL OF UNIT).

3. If option "E" (i.e., BATTALION) was selected in the select unit option, you will go directly to the report and will not be asked to select a subunit.

4. At the end of the report press the enter key to return to the STANDARD REPORT MENU.
ENDTEXT

CASE !(EELECPT) = 'E'
TEXT
OPTION E...MARKSMANSHIP STATUS REPORT
1. At the cursor, next to "select option ====>", type the letter (A-E) that corresponds to the unit desired. Enter the letter by pressing the enter key.

2. If a company was selected (A-D), you will next be asked to select a subunit. Enter the appropriate letter. If you want the report to include the entire unit selected, enter "E" (i.e., ALL OF UNIT).

3. If option "E" (i.e., BATTALION) was selected in the select unit option, you will go directly to the report and will not be asked to select a subunit.

4. The MARKSMANSHIP STATUS REPORT will display the qualification results for the unit or subunit members that have fired for qualifi- cation during the current year. Also, the percent that has qualified in each category (eg. EX,SS,MM,UNQ) and current year results for rifle and pistol will be shown. The pistol qualification results include only those members required to fire the pistol for qualification. Press the enter key to continue with the report.
ENDTEXT
@ 22,0
ACCEPT "PRESS 'ENTER' KEY TO CONTINUE" TO PROCEED
ERASE

TEXT

5. You will be asked if you want to do a company or battalion range quota analysis. If you answer no ("N"), you will automatically return to the STANDARD REPORT MENU. The range quota analysis allows you to observe, manipulate or permanently change the rifle range quotas that are assigned to the unit for the rest of the calendar year. Range quota analysis may only be done for the battalion or for a selected company (not platoons).

6. At the top of the screen general rifle range quota information is displayed followed by the number of quotas remaining in the current calendar year. Finally, an indication whether remaining quotas are less than, greater than, or equal to the number of Marines left to qualify is shown.

7. From this point you may change the quota allocation on a scratch pad or you may return to the STANDARD REPORT MENU. The original set of quotas have not been modified.

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ENDTEXT
@ 22,0
ACCEPT "PRESS 'ENTER' KEY TC CCNTINUE" TO PROCEED
ERASE
TEXT
```

8.   The scratch pad again shows the remaining quota allocaticns. However, you may make any temporary quota changes you desire on the scratch pad by simply overtyping the current quota allocation(s). The enter key will automatically move the cursor to the next quota, and a buzzer will sound when you reach the end of each field.

9.   After you've reached the last month's quota, you will be asked to select one of the following three options:
   A...Start over on the scratch pad with the original set of quotas.
   B...Return to the STANDARD REPORT MENU
   C...PERMANENTLY REPLACE ORIGINAL QUOTAS with the set of quotas that are currently displayed on the screen. This is the only option that will actually modify the original set of quotas for the unit.

10.   Cption A may be repeated indefinitely. Option B or cpticn C will return you directly to the STANDARD REPORT MENU.
```
ENDTEXT

CASE !(EELPCPT) = 'F'
TEXT
```
                    CPTION F...MARKSMANSHIP ROSTER REPORT
1.   At the cursor, next to "select option ====>", type the letter (A-E) that corresponds to the unit desired. Enter the letter by pressing the enter key.

2.   If a ccmpany was selected (A-D), you will next be asked to select a subunit. Enter the appropriate letter. If you want the report to include the entire unit selected, enter "E" (i.e., ALL OF UNIT).

3.   If opticn "E" (i.e., BATTALICN) was selected in the select unit option, you will gc directly to the report and will nct be asked to select a subunit.

4.   The MARKSMANSHIP ROSTER REPORT will display in alphabetical order the NAME, RANK, DATE OF QUALIFICATION, and QUALIFICATION RESULTS for each member of the unit cr subunit. Current year results only will be displayed.

5.   At the end of the report press the enter key to return to the STANDARD REPORT MENU.
```
ENDTEXT

CASE !(EELPCPT) = 'G'
TEXT
```
                    OPTION G...MOS STATUS REPORT
1.   At the cursor, next to "select option ====>", type the letter (A-E) that corresponds to the unit desired. Enter the letter by pressing the enter key.

2.   If a ccmpany was selected (A-D), you will next be asked to select a subunit. Enter the appropriate letter. If you want the report to include the entire unit selected, enter "E" (i.e., ALL OF UNIT).

3.   If opticn "E" (i.e., BATTALICN) was selected in the select unit option, you will gc directly to the report and will nct be asked to select a subunit.

4.   The MOS STATUS REPORT displays the number of unit or
subunit members grouped by MOS and RANK.   The screen will
scroll automatically unless stopped from your terminal.

5.   At the end of the report press the enter key to return
to the STANDARD REPORT MENU.
ENDTEXT

CASE !(HELPOPT) = 'H'
TEXT
                OPTION H...MOS ROSTER REPORT
1.   At the cursor, next to "select option ====>", type the
letter (A-E) that corresponds to the unit desired.   Enter
the letter by pressing the enter key.

2.   If a company was selected (A-D), you will next be asked
to select a subunit.   Enter the appropriate letter.   If you
want the report to include the entire unit selected, enter
"E" (i.e., ALL OF UNIT).

3.   If option "E" (i.e., BATTALION) was selected in the
select unit option, you will go directly to the report and
will not be asked to select a subunit.

4.   The MOS ROSTER REPORT groups by primary mos and
displays in alphabetic order the NAME, RANK, PRIMARY MOS
AND SECONDARY MOS of all members in the unit or subunit.

5.   At the end of the report press the enter key to return
to the STANDARD REPORT MENU.
ENDTEXT

CASE !(HELPOPT) = 'I'
TEXT
                OPTION I...PERSONAL DATA REPORT
1.   At the cursor, next to "select option ====>", type the
letter (A-E) that corresponds to the unit desired.   Enter
the letter by pressing the enter key.

2.   If a company was selected (A-D), you will next be asked
to select a subunit.   Enter the appropriate letter.   If you
want the report to include the entire unit selected, enter
"E" (i.e., ALL OF UNIT).

3.   If option "E" (i.e., BATTALION) was selected in the
select unit option, you will go directly to the report and
will not be asked to select a subunit.

4.   The PERSONAL DATA REPORT displays for each member of
the unit or subunit all personal data including NAME, SSN,
RANK, PRIMARY/SECONDARY MOS, UNIT/SUBUNIT NAME, JOIN DATE,
EAS, BIRTHDATE, HEIGHT, WEIGHT and a one character comment
block.   If the comment block is "T" (true), a comment is
contained on the individual concerned in the comment file.
The screen will scroll upon pressing the enter key.

5.   At the end of the report press the enter key to return
to the STANDARD REPORT MENU.
ENDTEXT

CASE !(HELPOPT) = 'J'
TEXT
                OPTION J...EST STATUS REPORT
1.   At the cursor, next to "select option ====>", type the
letter (A-E) that corresponds to the unit desired.   Enter
the letter by pressing the enter key.

2.   If a company was selected (A-D), you will next be asked

to select a subunit. Enter the appropriate letter. If you
want the report to include the entire unit selected, enter
"E" (i.e., ALL OF UNIT).

3. If option "E" (i.e., BATTALION) was selected in the
select unit option, you will go directly to the report and
will not be asked to select a subunit.

4. The EST STATUS REPORT includes the percent and total
number of unit or subunit members that have completed each
ESSENTIAL SUBJECT and the PFT.

5. At the end of the report press the enter key to return
to the STANDARD REPORT MENU.
ENDTEXT

CASE !(EELPCPT) = 'K'
TEXT
                    OPTION K...EST ROSTER REPORT
1. At the cursor, next to "select option ====>", type the
letter (A-E) that corresponds to the unit desired. Enter
the letter by pressing the enter key.

2. If a company was selected (A-D), you will next be asked
to select a subunit. Enter the appropriate letter. If you
want the report to include the entire unit selected, enter
"E" (i.e., ALL OF UNIT).

3. If option "E" (i.e., BATTALION) was selected in the
select unit option, you will go directly to the report and
will not be asked to select a subunit.

4. The EST ROSTER REPORT displays for each member of the
unit or subunit all of his essential subject training and
PFT results for the current year. A "*" character
indicates an element that has not been completed. The
screen will scroll upon pressing the enter key.

5. At the end of the report press the enter key to return
to the STANDARD REPORT MENU.
ENDTEXT

CASE !(EELPCPT) = 'L'
TEXT
                    OPTION L...SWIM QUALIFICATION REPORT
1. At the cursor, next to "select option ====>", type the
letter (A-E) that corresponds to the unit desired. Enter
the letter by pressing the enter key.

2. If a company was selected (A-D), you will next be asked
to select a subunit. Enter the appropriate letter. If you
want the report to include the entire unit selected, enter
"E" (i.e., ALL OF UNIT).

3. If option "E" (i.e., BATTALION) was selected in the
select unit option, you will go directly to the report and
will not be asked to select a subunit.

4. The SWIM QUALIFICATION REPORT displays in alphabetic
order for each member of the unit or subunit NAME, RANK,
UNIT and CURRENT SWIM QUAL RESULTS.

5. At the end of the report a SUMMARY DATA TABLE is
displayed which shows the number of unit or subunit members
that have qualified in each category (S1, S2, S3, UNQ).

6. Press the enter key to return to the STANDARD REPORT
MENU.
ENDTEXT

```
ENDCASE
@ 23,C
ACCEPT "PRESS 'ENTER' TO CONTINUE" TO PROCEED
ENDCASE
RETURN
```

APPENDIX H

MAINTENANCE MODULE LISTING

A. MAINTAIN CONTROL ROUTINE


```
* Routine Name: Maintain.Prg
* Module Name: Maintenance Module
* Version: 6.0
* Author: D.P. Haeusler
* Date: 30 Nov 83
* Variables Used: mdone,mntnopt
* Variables Modified: mdone, mntnopt
* Variables Created: mdone, mntnopt
* Variables Released: mdone, mntnopt
* Files (opened/closed): none
* Temporary Files Created: none
* Using Subroutines: Cmddet
* Description: This routine produces a module which gives
* the user the option of which maintenace function to
* activate.  Each function has an authorization level
* associated with and only appropriate users may activate
* certain modules.

STORE f TO AAdone
DO WHILE .NOT. AAdone
    ERASE
    @ 4,29 SAY "MAINTENANCE MODULE MENU"
    @ 6,24 SAY "SELECT ONE OF THE FOLLOWING OPTIONS"
    @ 8,31 SAY "V...VIEW INDIVIDUAL DATA"
    @ 9,31 SAY "U...UPDATE DATA"
    @ 10,31 SAY "C...CREATE AN ITR"          .
    @ 11,31 SAY "D...DELETE AN ITR"
    @ 12,31 SAY "S...SYSTEM FUNCTIONS"
    @ 13,31 SAY "H...HELP"
    @ 14,29 SAY "* Q...QUIT *"
    @ 15,0 SAY  " "

    ACCEPT "            SELECT OPTION ===>" TO mntnopt

    DO CASE
        CASE !(mntnopt) = 'V'
            DO viewitr
        CASE !(mntnopt) = 'U'
            IF AAlevel < 3
                DO updtitr
            ELSE
                ERASE
                @ 8,31 SAY "ACCESS UNAUTHORIZED"
                DO pause
            ENDIF
        CASE !(mntnopt) = 'C'
            IF AAlevel < 3
                DO creatitr
            ELSE
                ERASE
                @ 8,31 SAY "ACCESS UNAUTHORIZED"
                DO pause
            ENDIF
        CASE !(mntnopt) = 'D'
            IF AAlevel = 1
                DO deletitr
```

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```
                ELSE
                    ERASE
                    @ 8,31 SAY "ACCESS UNAUTHORIZED"
                    DO pause
                ENDIF
            CASE !(mntnopt) = 'S'
                IF AAlevel = 1
                    DO system
                ELSE
                    ERASE
                    @ 8,31 SAY "ACCESS UNAUTHORIZED"
                    DO pause
                ENDIF
            CASE !(mntnopt) = 'H'
                STORE 2 TO HELPOPT
                DO B:HELP2
            CASE !(mntnopt) = 'Q'
                STORE t TO AAdone
                ERASE
        ENDCASE
    ENDDO
ENDDO
RELEASE mntnopt, HELPOPT
RELEASE AADONE
RETURN
```

E.   VIEW CONTROL ROUTINE

```
* Routine Name: Viewitr.prg
* Module Name: Maintenance Module
* Version: 6.1.0
* Author: C.P. Haeusler
* Date: 1 Dec 83
* Variables Used: vdone, vfinish, vname, vcomp, vagain,
*                 vssn, vend, view
* Variables Modified: same as above
* Variables Created: same as above
* Variables Released: all like v???????
* Files (opened/closed): a:pers(opened/closed)
* Temporary Files Created: none
* Using Subroutines: maintain.prg, stdrpt.prg
* Description:This routine controls the creation of the
* ITR for viewing only.  It does not allow any changes to
* data.

STORE F TO VNOFIND
STORE F TO VDONE

DO WHILE .NOT. VDONE
   STORE F TO VFINISH
   DO WHILE .NOT. VFINISH .AND. .NOT. VDONE
      ERASE
      @ 8,31 SAY "TO LOCATE AN ITR"
      @ 9,31 SAY "ENTER NAME (LAST, FIRST MI.)"
      ACCEPT "               NAME ===>" TO VNAME

      STORE !(VNAME) TO VNAME
      USE A:PERS INDEX A:ALPHPERS
      FIND &VNAME

      IF # = 0
         ERASE

         @ 8,31 SAY " INDIVIDUAL IS NOT IN THE DATA BASE"
         STORE F TO VCOMP
         DO WHILE .NOT. VCOMP
            ACCEPT "DO YOU WANT TO TRY AGAIN (Y/N)" ;
            TO VAGAIN
            STORE !(VAGAIN) TO VAGAIN
            DO CASE
               CASE VAGAIN = 'N'
                  STORE T TO VDONE
                  STORE T TO VCOMP
                  STORE T TO FINISH
               CASE VAGAIN = 'Y'
                  STORE T TO VCOMP
                  STORE T TO VNOFIND
            ENDCASE
         ENDDO
      ELSE
         STORE SSN TO AASSN
         STORE COMMENT TO STCOMMNT
         USE

         STORE F TO VEND
         DO WHILE .NOT. VEND
            STORE T TO VEND
            DO ITRSCRN
            DO GETDATA
            @ 24,24 SAY "** PRESS ANY KEY TO CONTINUE **"
            SET CONSOLE OFF
            WAIT
            SET CONSOLE ON
            STORE F TO VIEW
```

```
               IF STCOMMNT
                  STORE F TO VCOME
                  DO WHILE .NOT.VCOMP
                     ACCEPT " DO YOU WANT TO VIEW COMMENTS;
(Y/N)?" IC VAGAIN
                        DO CASE
                           CASE !(VAGAIN) = 'N'
                              STORE T TO VCOMP
                              STORE F TO VIEW
                              STORE T IO VFINISH
                              STORE T TO VDONE
                           CASE !(VAGAIN) = 'Y'
                              STORE T TC VCOMP
                              STORE T TO VIEW
                        ENICASE
                  ENDDO
                  IF VIEW
                     DO GETCMMNT
                  ENDIF
               ENDIF
               @ 24,0
               STORE T IC VFINISH
               STORE F IC VCOME
               DO WHILE .NOT. VCOMP .AND. VIEW
                  ACCEPT " DO YOU WANT TO VIEW ITR AGAIN;
(Y/N)?" TC VAGAIN
                     DC CASE
                        CASE !(VAGAIN) = 'Y'
                           STORE T TC VCOMP
                           STORE F TO VEND
                        CASE !(VAGAIN) = 'N'
                           STORE T TO VCOMP
                           STORE T TC VEND
                     ENDCASE
               ENDDO
            ENLDO
         ENLIF
      ENLDO
      ERASE
      STCRE F TO VCOMP
      DO WHILE .NOT. VCCMP .ANL. .NOT. VNOFIND
         @ 11,24 SAY " IC VIEW ANCTHER ITR"
         ACCEPT "                    ENTER (Y/N) ===>";
         TO VAGAIN
         DC CASE
            CASE !(VAGAIN) = 'Y'
               STORE T TC VCOME
            CASE !(VAGAIN) = 'N'
               STORE T TC VCOME
               STORE T TC VDONE
         ENICASE
      ENLDO
ENDDC
RELEASE ALL EXCEPT AA??????
RETURN
```

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C. ITR SCREEN FORMAT ROUTINE

```
* Routine Name: Itrscrn.prg
* Module Name: Maintenance Module
* Version: 6.1.0.1
* Author: D.P. Haeusler
* Date: 1 DEC 83
* Variables Used:NONE
* Variables Modified:NONE
* Variables Created:NCNE
* Variables Released:NONE
* Files (opened/closed): NONE
* Temporary Files Created: NONE
* Using Subroutines: Viewitr, Creatitr, Updtitr, Deletitr
* Description: This routine formats the screen in the
* representation of an ITR.

ERASE

@ 0,25 SAY "INDIVIDUAL TRAINING RECORD"
@ 1,8 SAY "NAME:"
@ 1,46 SAY "GRADE:"
@ 1,57 SAY "MOS:"
@ 1,66 SAY "/:"
@ 2,8 SAY "BIRTHDATE.....:"
@ 2,40 SAY "SSN....:"
@ 3,8 SAY "CO:"
@ 3,18 SAY "PLAT:"
@ 3,33 SAY "JOIN:"
@ 3,46 SAY "EAS.-:"
@ 3,58 SAY "GAS MASK..:"
@ 4,8 SAY "MIL CODE OF CONDUCT:"
@ 4,40 SAY "PFT1......:"
@ 4,55 SAY "/:"
@ 4,61 SAY "DATE:"
@ 5,8 SAY "HISTORY OF MARCOR..:"
@ 5,40 SAY "PFT2......:"
@ 5,55 SAY "/:"
@ 5,61 SAY "DATE:"
@ 6,8 SAY "DRILL............:"
@ 6,40 SAY "NBC.....:"
@ 7,8 SAY "INTERIOR GUARD.....:"
@ 7,40 SAY "MARKSMANSHIP.......:"
@ 8,8 SAY "FIRST AID.........:"
@ 8,40 SAY "INDIVIDUAL TACTICAL"
@ 9,8 SAY "EQUIP & UNIFORM....:"
@ 9,40 SAY "MEASURES..........:"
@ 11,8 SAY "SWIM QUAL...:"
@ 11,24 SAY "DATE:"
@ 11,40 SAY "WEIGHT CONTROL....:"
@ 12,8 SAY "RIFLE QUAL..:"
@ 12,25 SAY "/:"
@ 12,31 SAY "DATE:"
@ 12,49 SAY "WEIGHT...:"
@ 13,8 SAY "PISTOL QUAL.:"
@ 13,25 SAY "/:"
@ 13,31 SAY "DATE:"
@ 13,49 SAY "HEIGHT...:"
@ 15,8 SAY "ELECTRONIC WARFARE..:"
@ 15,40 SAY "DRUG ABUSE........:"
@ 16,8 SAY "CLD WEATHER.........:"
@ 16,40 SAY "ALCOHOL ABUSE.....:"
@ 17,8 SAY "LAW OF WAR.........:"
@ 17,40 SAY "HUMAN RELATIONS...:"
@ 18,8 SAY "TRAINING MOS........:"
@ 18,40 SAY "PERSONAL AFFAIRS..:"
@ 19,8 SAY "LEADERSHIP..........:"
@ 19,40 SAY "UCMJ...............:"
```

```
@ 20,8 SAY "CHAR & MORAL ED.....:"
@ 21,8 SAY "CMMENTS.:"

RETURN
```

D. SCREEN DATA RETRIEVALROUTINE

```
* Routine Name: Getdata.prg
* Module Name: Maintenance Module
* Version: 6.1.0.2
* Author: D. P. Haeusler
* Date: 1 Dec 83
* Variables Used: vssn
* Variables Modified: NONE
* Variables Created: NONE
* Variables Released:NONE
* Files (opened/closed): a:pers(opened/closed),
*                        b:est(opened/closed),
*                        b:qual(opened/closed)
*                        b:infcmisc(opened/closed)
* Temporary Files Created:NONE
* Using Subroutines:Viewitr, Updtitr, Deletitr
* Description: This routine retrieves the information
* stored in the data base for the individual specified by
* vssn.  It then arranges it in the screen format created
* by Itrscrn.prg.

STORE AASSN TO VSSN
USE A:PEFS INDEX A:PEFSSN
FIND &VSSN

@ 1,13 SAY NAME
@ 1,52 SAY RANK
@ 1,61 SAY PRIMEMOS
@ 1,68 SAY SECMOS
@ 2,23 SAY ERTHDATE
@ 2,49 SAY SSN
@ 3,11 SAY COMPANY
@ 3,23 SAY PLATOON
@ 3,38 SAY JOINDATE
@ 3,51 SAY EAS
@ 3,69 SAY GASMASK
@ 11,59 SAY WTCONT
@ 12,59 SAY WEIGHT
@ 13,59 SAY HEIGHT
@ 21,17 SAY COMMENT

USE B:EST INDEX B:ESTSSN
FIND &VSSN

@ 4,28 SAY COC
@ 4,51 SAY PFT1RAW
@ 4,57 SAY PFT1CLSS
@ 4,66 SAY PFT1DATE
@ 5,28 SAY HIS
@ 5,51 SAY PFT2RAW
@ 5,57 SAY PFT2CLSS
@ 5,66 SAY PFT2DATE
@ 6,28 SAY COD
@ 6,48 SAY NEC
@ 7,28 SAY INT
@ 7,59 SAY MKS
@ 8,28 SAY AID
@ 9,28 SAY UNI
@ 9,59 SAY TAC

USE B:QUAL INDEX B:QUALSSN
FIND &VSSN

@ 11,20 SAY SWIMQUAL
@ 11,29 SAY SWIMDATE
@ 12,21 SAY RFLSCORE
@ 12,27 SAY RFLQUAL
```

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```
@ 12,36 SAY RFLDATE
@ 13,21 SAY PSTSCORE
@ 13,27 SAY PSTQUAL
@ 13,36 SAY PSTDATE

USE B:INFCMISC INDEX E:INFOSSN
FIND &VSSN

@ 15,29 SAY ELECWAR
@ 15,59 SAY DRUG
@ 16,29 SAY CLDWTHR
@ 16,59 SAY ALCOHOL
@ 17,29 SAY LAWWAR
@ 17,59 SAY HUMREL
@ 18,29 SAY MOS
@ 18,59 SAY PERSAFFR
@ 19,29 SAY LDRSHP
@ 19,59 SAY UCMJ
@ 20,29 SAY CHRMCRED

USE
RETURN
```

E. CCMMENT RETRIEVAL ROUTINE

```
* Routine Name: Getcrmnt.prg
* Module Name: Maintenance Module
* Version: 6.1.1
* Authcr: D.P. Haeusler
* Date: 10 Jan 84
* Variables Used: none
* Variables Modified: none
* Variables Created: none
* Variables Released: none
* Files (opened/closed): a:cmmnt(o/c)
* Temporary Files Created: none
* Using Subroutines: Viewitr.prg
* Description: This routine displays the contents of the
* comments data base file.

ERASE
@ 5,33 SAY "COMMENT SECTION"
USE A:CMMNT INDEX A:CMMNTSSN
FIND &AASSN
@ 8,2 SAY INFOTXT1
@ 8,51 SAY INFOTXT2
@ 9,2 SAY INFOTXT3
@ 9,51 SAY INFOTXT4
@ 10,2 SAY INFOTXT5
@ 10,51 SAY INFOTXT6
@ 11,2 SAY INFOTXT7
@ 11,51 SAY INFOTXT8
@ 12,2 SAY INFOTXT9
@ 12,51 SAY INFOTXT0
USE
RETURN
```

F. UPDATE CONTROL ROUTINE

```
* Routine Name: Updtitr.prg
* Module Name: Maintenance Module
* Version: 6.2.0
* Author: D.P. Haeusler
* Date: 2 Dec 83
* Variables Used: aaadone, upname, upcomp, upagain, aassn
* Variables Modified: aaadone, upname, upcomp, upagain,
*                     aassn
* Variables Created: aaadone, upname, upcomp, upagain,
*                    aassn
* Variables Released: all like up??????, aassn, aaadone
*                     aathru, aacorr
* Files (opened/closed): a:pers (OPENED/CLOSED)
* Temporary Files Created: NONE
* Using Subroutines: Maintain.prg
* Description: This routine finds the ITR to be updated
* and controls the update routines.

STORE F TO AAADONE

DO WHILE .NOT. AAADONE
    ERASE
    @ 8,24 SAY "WHICH ITR IS TO BE"
    @ 9,23 SAY "UPDATED OR CORRECTED?"
    @ 10,23 SAY "NAME (LAST, FIRST MI.)"
    ACCEPT "                    NAME ===>" TO UPNAME

    STORE !(UPNAME) TO UPNAME
    USE A:PERS INDEX a:ALPHPERS
    FIND &UPNAME

    IF # = 0.
        ERASE
        @ 8,24 SAY "INDVIDUAL IS NOT IN THE DATA BASE"
        @ 9,23 SAY "OR YOU HAVE ENTERED AN INCORRECT NAME"

        STORE F TO UPCOMP

        DO WHILE .NOT. UPCOMP
            ACCEPT "         DO YOU WANT TO TRY AGAIN (Y/N)?";
            TO UPAGAIN
            DO CASE
                CASE !(UPAGAIN) = 'Y'
                    STORE T TO UPCOMP

                CASE !(UPAGAIN) = 'N'
                    STORE T TO UPCOMP
                    STORE T TO AAADONE
            ENDCASE
        ENDDO
    ELSE
        STORE SSN TO AASSN
        USE
        DO ITRSCRN
        DO GETDATA
        DO UPDATA
        STORE F TO UPCOMP
        DO WHILE .NOT. UPCOMP
            ERASE
            ACCEPT " DO YOU WANT TO UPDATE ANOTHER ITR;
    (Y/N)?"  TO UPAGAIN
            DO CASE
                CASE !(UPAGAIN) = 'Y'
                    STORE T TO UPCOMP
                CASE !(UPAGAIN) = 'N'
                    STORE T TO UPCOMP
```

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```
                  STORE T TO AAADONE
            ENDCASE
         ENDDO
      ENDIF
ENDDO
RELEASE ALL EXCEPT AA??????
RELEASE AASSN, AATHRU, AACORR, AAADONE

RETURN
```

G. DATA UPDATE ROUTINE

```
* Routine Name: Updata.prg
* Module Name: Maintenance Module
* Version: 6.2.0.1
* Author: D. P. Haeusler
* Date: 8 Dec 83
* Variables Used: aathru, aacorr, upopt, inname, inrank,
*                 upccrmos, inprime, insec, inbrth, inssn,
*                 ericpt, incomp, inplat, injndate, ineas,
*                 ingas, incode, inpft1, calcopt, wthru,
*                 wdate, inpftdt1, inpftdt2, inswdt,
*                 inrfldt, inpstdt, inhis, inpft2, indrill
*                 innbc, inint, inmks, inaid, inuni,
*                 intac, inswqu, inrflsc, inweight,
*                 inpstsc, inhght, inelec, indrug,
*                 incldwtr, inalch, inlaw, inhum, inmcs,
*                 inpersaf, inldr, inucmj, inchrmor,
*                 inccmmnt
* Variables Modified: same as above
* Variables Created: same as above
* Variables Released: all like in??????
* Files (opened/closed): a:pers (opened/closed)
*                        b:qual (opened/closed)
*                        b:est (opened/closed)
*                        b:infcmisc (opened/closed)
* Temporary Files Created: none
* Using Subroutines: updtitr.prg
* Description: This routine prompts the user to choose a
* specific field of the ITR to update.  It then locates
* that field in the data base and replaces the old data
* with new data.  It also calls error checking routines
* and a calculate function.

STORE F TO AATHRU

DO WHILE .NOT. AATHRU
   STORE F TO AACORR
   DO WHILE .NOT. AACCRR
      RELEASE ALL LIKE IN??????
      STORE "                              " TO UPOPT
      @ 22,0
      @ 23,0
      @ 22,1 SAY " OPTION: FIELD TO BE CHANGED OR 'Q';
 TO QUIT."
      @ 23,1 SAY " OPTION ===>" GET UPOPT PICTURE "XXXXXX;
XXXXXXXXXXXXXXXXXXXXXXXXX"
      READ
      STORE !(UPOPT) TO UPOPT
      DO CASE
         CASE UPOPT = 'NAME'
            STORE T TO AACORR
            USE A:PERS INDEX A:PERSSN, A:ALPHPERS
            FIND &AASSN
            STORE NAME TO  INNAME
            @ 1,12 GET INNAME PICTURE "XXXXXXXXXXXXXXXXX;
XXXXXXXXXXXX"
            READ
            REPLACE NAME WITH !(INNAME)
            USE

         CASE UPOPT = 'GRADE'
            STORE T TO AACORR
            USE A:PERS INDEX A:PERSSN
            FIND &AASSN
            STORE RANK TO  INRANK
            @ 1,51 GET INRANK PICTURE "XX"
            READ
```

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```
            STORE 1 TC ERROFT
            DO ERROR
            REPLACE RANK WITH !(INRANK)
            USE

      CASE UPOPT = 'MOS'
            STORE T TC AACORR
            @ 23,0
            @ 24,0
            STORE F TO UPCORMOS
            DO WHILE .NOT. UPCORMOS
                @ 23,1 SAY " PRIMARY OR SECONDARY?"
                ACCEPT "ENTER F OR S ====>" TO UPAGAIN
                DO CASE
                    CASE !(UPAGAIN) = 'P'
                        STORE T TO UPCORMOS
                        USE A:FERS INDEX A:PERSSN , A:MCSNDX
                        FIND &AASSN
                        STORE PRIMEMOS TO INPRIME
                        @ 1,60 GET INPRIME PICTURE "9999"
                        READ
                        REPLACE PRIMEMOS WITH !(INPRIME)
                        USE

                    CASE !(UPAGAIN) = 'S'
                        STORE T TC UPCORMOS
                        USE A:PERS INDEX A:PERSSN
                        FIND &AASSN
                        STORE SECMOS TO INSEC
                        @ 1,67 GET INSEC PICTURE "9999"
                        READ
                        REPLACE SECMOS WITH INSEC
                        USE
                ENDCASE
            ENDDO

      CASE UPOPT = 'BIRTHDATE'
            STORE T TC AACORR
            USE A:PERS INDEX A:PERSSN
            FIND &AASSN
            STORE BRTHDATE TO INBRTH
            @ 2,22 GET INBRTH PICTURE "XXXXXX"
            READ
            STORE 2 TC ERROPT
            DO ERROR
            REPLACE ERTHDATE WITH INBRTH
            USE

      CASE UPOPT = 'SSN'
            STORE T TC AACORR
            USE A:PERS INDEX A:PERSSN
            FIND &AASSN
            STORE SSN TO INSSN
            @ 2,48 GET INSSN PICTURE "999999999"
            READ
            REPLACE SSN WITH INSSN
            USE
            USE A:CMMNT INDEX A:CMMNTSSN
            FIND &AASSN
            REPLACE SSN WITH INSSN
            USE B:EST INDEX B:ESTSSN
            FIND &AASSN
            REPLACE SSN WITH INSSN
            USE B:QUAL INDEX B:QUALSSN
            FIND &AASSN
            REPLACE SSN WITH INSSN
            USE B:INFOMISC INDEX B:INFOSSN
            FIND &AASSN
            REPLACE SSN WITH INSSN
```

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```
     STORE INSSN TO AASSN
     USE

CASE UPOPT = 'CO'
     STORE T TC AACORR
     USE A:PERS INDEX A:PERSSN
     FIND &AASSN
     STORE COMPANY TC INCOMP
     @ 3,10 GET INCOMP PICTURE "XXXXX"
     READ
     REPLACE CCMPANY WITH !(INCOMP)
     USE

CASE UPOPT = 'PLAT'
     STORE T TC AACORR
     USE A:PERS INDEX A:PERSSN
     FIND &AASSN
     STORE PLAT TO INPLAT
     @ 3,22 GET INPLAT PICTURE "XXXXXXXX"
     READ
     REPLACE PIATOON WITH !(INPLAT)
     USE

CASE UPCPT = 'JOIN'
     STORE T TO AACORR
     USE A:PERS INDEX A:PERSSN
     FIND &AASSN
     STORE JOINDATE TO INJNDATE
     @ 3,37 GET INJNDATE PICTURE "XXXXX"
     READ
     STORE 3 TC ERROPT
     DO ERROR
     REPLACE JCINDATE WITH INJNDATE
     USE

CASE UPOPT = 'EAS'
     STORE T TC AACORR
     USE A:PERS INDEX A:PERSSN
     FIND &AASSN
     STORE EAS TO INEAS
     @ 3,50 GET INEAS PICTURE "XXXXX"
     READ
     REPLACE EAS WITH INEAS
     USE

CASE UPOPT = 'GAS MASK'
     STORE T TC AACORR
     USE A:PERS INDEX A:PERSSN
     FIND &AASSN
     STORE GASMASK TC INGAS
     @ 3,68 GET INGAS PICTURE "X"
     READ
     STORE 4 TC ERROPT
     DO ERROR
     REPLACE GASMASK WITH !(INGAS)
     USE

CASE UPOPT = 'MIL CODE OF CONDUCT'
     STORE T TC AACORR
     USE B:EST INDEX B:ESTSSN
     FIND &AASSN
     STORE COC TO INCODE
     @ 4,27 GET INCODE PICTURE "XXX"
     READ
     REPLACE CCC WITH !(INCODE)
     USE

CASE UPOPT = 'PFT1'
     STORE T TC AACORR
```

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```
            USE B:EST INDEX E:ESTSSN
            FIND &AASSN
            STORE PFT1RAW TC INPFT1
            @ 4,50 GET INPFT1 PICTURE "999"
            READ
            STORE 5 TC ERROPT
            DO ERROR
            REPLACE PFT1RAW WITH INPFT1
            USE
            STORE 1 TO CALCOPT
            DO CALCULAT

        CASE UPOPT = 'DATE'
            STORE F TC WTHRU
            STORE T TC AACORR
            DO WHILE .NOT. WTHRU
                @ 23,0
                @ 24,0
                @ 23,1 SAY " A..PFT1, B..PFT2, C...SWIM,;
D..RIFLE, E..PISTOL"
                ACCEPT "WHICH DATE IS TO BE ENTERED ===> ";
                TO WDATE
                STORE !(WDATE) TO WDATE
                DO CASE
                    CASE WDATE = 'A'
                        STORE T TO WTHRU
                        USE B:EST INDEX B:ESTSSN
                        FIND &AASSN
                        STORE PFT1DATE TO INPFTDT1
                        @ 4,65 GET INPFTDT1 PICTURE "XXXXXX"
                        READ
                        STORE 6 TC ERROPT
                        DC ERROR
                        REPLACE PFT1DATE WITH INPFTDT1
                        USE

                    CASE WDATE = 'B'
                        STORE T TO WTHRU
                        USE B:EST INDEX B:ESTSSN
                        FIND &AASSN
                        STORE PFT2DATE TO INPFTDT2
                        @ 5,65 GET INPFTDT2 PICTURE "XXXXXX"
                        READ
                        STORE 8 TO ERROPT
                        DC ERROR
                        REPLACE PFT2DATE WITH INPFTDT2
                        USE

                    CASE WDATE = 'C'
                        STORE T TO WTHRU
                        USE B:QUAL INDEX B:QUALSSN
                        FIND &AASSN
                        STORE SWIMDATE TO INSWDT
                        @ 11,28 GET INSWDT PICTURE "XXXXXX"
                        READ
                        STORE 10 TC ERROPT
                        DC ERROR
                        REPLACE SWIMDATE WITH INSWDT
                        USE

                    CASE WDATE = 'D'
                        STORE T TO WTHRU
                        USE B:QUAL INDEX B:QUALSSN
                        FIND &AASSN
                        STORE RFLDATE TO INRFLDT
                        @ 12,35 GET INRFLDT PICTURE "XXXXXX"
                        READ
                        STORE 12 TO ERROPT
                        DC ERROR
```

```
                    REPLACE RFIDATE WITH INRFLDT
                    USE

            CASE WDATE = 'E'
                    STORE T TO WTHRU
                    USE B:QUAL INDEX B:QUALSSN
                    FIND &AASSN
                    STORE PSTDATE TO INPSTDT
                    @ 13,35 GET INPSTDT PICTURE "XXXXX"
                    READ
                    STORE 15 TC ERROPT
                    DO ERROR
                    REPLACE PSTDATE WITH INPSTDT
                    USE
            ENDCASE
        ENDDO

    CASE UPOPT = 'HISTORY CF MARCOR'
        STORE T TO AACORR
        USE B:EST INDEX B:ESTSSN
        FIND &AASSN
        STORE HIS TO INHIS
        @ 5,27 GET INHIS PICTURE "XXX"
        READ
        REPLACE HIS WITH INHIS
        USE

    CASE UPOPT = 'PFT2'
        STORE T TO AACORR
        USE B:EST INDEX B:ESTSSN
        FIND &AASSN
        STORE PFT2RAW TO INPFT2
        @ 5,50 GET INPFT2 PICTURE "999"
        READ
    .   STORE 7 TC ERROPT
        DO ERROR
        REPLACE PFT2RAW WITH INPFT2
        USE
        STORE 2 TC CALCOPT
        DO CALCULAT

    CASE UPOPT = 'DRILL'
        STORE T TO AACORR
        USE B:EST INDEX B:ESTSSN
        FIND &AASSN
        STORE  COD TO INDRILL
        @ 6,27 GET INDRILL PICTURE "XXX"
        READ
        REPLACE COD WITH INDRILL
        USE

    CASE UPOPT = 'NBC'
        STORE T TO AACORR
        USE B:EST INDEX B:ESTSSN
        FIND &AASSN
        STORE NBC TO INNBC
        @ 6,47 GET INNBC PICTURE "XXXXX"
        READ
        REPLACE NBC WITH INNBC
        USE

    CASE UPOPT = 'INTERIOF GUARD'
        STORE T TO AACORR
        USE B:EST INDEX B:ESTSSN
        FIND &AASSN
        STORE INT TO ININT
        @ 7,27 GET ININT PICTURE "XXX"
        READ
        REPLACE INT WITH ININT
```

```
        USE

CASE UPOPT = 'MARKSMANSHIP'
    STORE T TO AACORR
    USE B:EST INDEX B:ESTSSN
    FIND &AASSN
    STORE MKS TO INMKS
    @ 7,58 GET INMKS PICTURE "XXXXX"
    READ
    REPLACE MKS WITH INMKS
    USE

CASE UPOPT = 'FIRST AID'
    STORE T TO AACORR
    USE B:EST INDEX B:ESTSSN
    FIND &AASSN
    STORE AID TO INAID
    @ 8,27 GET INAID PICTURE "XXXXXXXXXX"
    READ
    REPLACE AID WITH INAID
    USE

CASE UPOPT = 'EQUIP & UNIFORM'
    STORE T TO AACORR
    USE B:EST INDEX B:ESTSSN
    FIND &AASSN
    STORE UNI TO INUNI
    @ 9,27 GET INUNI PICTURE "XXX"
    READ
    REPLACE UNI WITH INUNI
    USE

CASE UPOPT = 'INDIVIDUAL TACTICAL MEASURES'
    STORE T TO AACORR
    USE B:EST INDEX B:ESTSSN
    FIND &AASSN
    STORE TAC TO INTAC
    @ 9,58 GET INTAC PICTURE "XXXXX"
    READ
    REPLACE TAC WITH INTAC
    USE

CASE UPOPT = 'SWIM QUAL'
    STORE T TO AACORR
    USE B:QUAL INDEX B:QUALSSN
    FIND &AASSN
    STORE SWIMQUAL TO INSWQU
    @ 11,19 GET INSWQU PICTURE "XX"
    READ
    STORE  9 TO ERROPT
    DO ERROR
    REPLACE SWIMQUAL WITH INSWQU
    USE

CASE UPOPT = 'RIFLE QUAL'
    STORE T TO AACORR
    USE B:QUAL INDEX B:QUALSSN
    FIND &AASSN
    STORE RFLSCORE TO INRFLSC
    @ 12,20 GET INRFLSC PICTURE "999"
    READ
    STORE 11 TO ERROPT
    DO ERROR
    REPLACE RFLSCORE WITH INRFLSC
    USE
    STORE 3 TO CALCOPT
    DO CALCULAT

CASE UPOPT = 'WEIGHT'
```

```
                STORE T TC AACORR
                USE A:PERS INDEX A:PERSSN
                FIND &AASSN
                STORE WEIGHT TO INWEIGHT
                @ 12,58 GET INWEIGHT PICTURE "999"
                READ
                STORE 13 TO ERRCPT
                DO ERROR
                REPLACE WEIGHT WITH INWEIGHT
                USE
                STORE 5 TC CALCCPT
                DO CALCULAT

        CASE UPOPT = 'PISTCL QUAL'
                STORE T TC AACORR
                USE B:QUAL INDEX B:QUALSSN
                FIND &AASSN
                STORE PSTSCORE TC INPSTSC
                @ 13,20 GET INPSTSC PICTURE "999"
                READ
                STORE 14 TO ERROPT
                DO ERROR
                REPLACE PSTSCORE WITH INPSTSC
                USE
                STORE 4 TC CALCOPT
                DO CALCULAT

        CASE UPOPT = 'HEIGHT'
                STORE T TC AACORR
                USE A:PERS INDEX A:PERSSN
                FIND &AASSN
                STORE HEIGHT TO INHGHT
                @ 13,58 GET INHGHT PICTURE "99"
                READ
                STORE 16 TO ERRCPT
                DO ERROR
                REPLACE HEIGHT WITH INHGHT
                USE
                STORE 5 TC CALCCPT
                DO CALCULAT

        CASE UPOPT = 'ELECTRCNIC WARFARE'
                STORE T TC AACORR
                USE B:INFCMISC INDEX B:INFOSSN
                FIND &AASSN
                STORE ELECWAR TC INELEC
                @ 15,28 GET INELEC PICTURE "XXXXXX"
                READ
                REPLACE ELECWAR WITH INELEC
                USE

        CASE UPOPT = 'DRUG ABUSE'
                STORE T TC AACORR
                USE B:INFCMISC INDEX B:INFOSSN
                FIND &AASSN
                STORE DRUG TO INDRUG
                @ 15,57 GET INDRUG PICTURE "XXXXXX"
                READ
                REPLACE DRUG WITH INDRUG
                USE

        CASE UPOPT = 'CLD WEATHER'
                STORE T TC AACORR
                USE B:INFCMISC INDEX B:INFOSSN
                FIND &AASSN
                STORE CLDWTHR TC INCLDWTR
                @ 16,28 GET INCLDWTR PICTURE "XXXXXX"
                READ
                REPLACE CLDWTHR WITH INCLDWTR
```

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```
     USE

CASE UPOPT = 'ALCOHOL ABUSE'
     STORE T TC AACORR
     USE B:INFCMISC INDEX B:INFOSSN
     FIND &AASSN
     STORE ALCOHOL TO INALCH
     @ 16,58 GET INALCH PICTURE "XXXXXX"
     READ
     REPLACE AICOHOL WITH INALCH
     USE

CASE UPCPT = 'LAW CF WAR'
     STORE T TO AACORR
     USE B:INFCMISC INDEX B:INFOSSN
     FIND &AASSN
     STORE LAWWAR TO INLAW
     @ 17,28 GET INLAW PICTURE "XXXXX"
     READ
     REPLACE LAWWAR WITH INLAW
     USE

CASE UPOPT = 'HUMAN RELATIONS'
     STORE T TC AACORR
     USE B:INFCMISC INDEX B:INFOSSN
     FIND &AASSN
     STORE HUMREL TO INHUM
     @ 17,58 GET INHUM PICTURE "XXXXXX"
     READ
     REPLACE HUMREL WITH INHUM
     USE

CASE UPOPT = 'TRAINING MOS'
     STORE T TO AACORR
     USE B:INFCMISC INDEX B:INFOSSN
     FIND &AASSN
     STORE MOS TO INMOS
     @ 18,27 GET INMOS PICTURE "XXXX"
     READ
     REPLACE MCS WITH INMOS
     USE

CASE UPOPT = 'PERSONAL AFFAIRS'
     STORE T TC AACORR
     USE B:INFCMISC INDEX B:INFOSSN
     FIND &AASSN
     STORE PERSAFFR TO INPERSAF
     @ 18,58 GET INPERSAF PICTURE "XXXXXX"
     READ
     REPLACE EERSAFFR WITH INPERSAF
     USE

CASE UPOPT = 'LEADERSHIP'
     STORE T TC AACORR
     USE B:INFCMISC INDEX B:INFOSSN
     FIND &AASSN
     STORE LDFSHP TO INLDR
     @ 19,28 GET INLDR PICTURE "XXXXXX"
     READ
     REPLACE LERSHP WITH INLDR
     USE

CASE UPOPT = 'UCMJ'
     STORE T TC AACORR
     USE B:INFCMISC INDEX B:INFOSSN
     FIND &AASSN
     STORE UCMJ TO INUCMJ
     @ 19,58 GET INUCMJ PICTURE "XXXXXX"
     READ
```

```
            REPLACE UCMJ WITH INUCMJ
            USE

        CASE UPOPT = 'CHAR & MORAL ED'
            STORE T TC AACORR
            USE B:INFCMISC INDEX B:INFOSSN
            FIND &AASSN
            STORE CHEMCRED TO INCHRMOR     ·
            @ 20,28 GET INCHRMOR PICTURE "XXXXXX"
            READ
            REPLACE CERMORED WITH INCHRMOR
            USE

        CASE UPOPT = 'CMMENTS'
            STORE T TC AACORR
            USE A:PERS INDEX A:PERSSN
            FIND &AASSN
            IF COMMENT
                DO WRTCMMNT
                DO ITRSCRN
                DO GETDATA
            ELSE
                STORE F TO INCCMMNT
                @ 21,16 GET INCOMMNT PICTURE "X"
                READ
                REPLACE COMMENT WITH INCOMMNT
                USE
                IF INCCMMNT
                    DO CRTCMMNT
                    DO WRTCMMNT
                    DO ITRSCRN
                    DO GETDATA
                ENDIF
            ENDIF

        CASE UPOPT = 'Q'
            STORE T TC AACORR
            STORE T TC AATHRU
    ENDCASE
  ENDDO
ENDDC
RETURN
```

B. ITR CREATION CONTROL ROUTINE

```
* Routine Name: Creatitr.prg
* Module Name:   Maintenance Module
* Version: 6.3.0
* Author:D.F. HAEUSLER
* Date: 2 Dec 83
* Variables Used: crccmp, aafini, cragain
* Variables Modified: same as above
* Variables Created: same as above
* Variables Released: same as above
* Files (opened/closed): NONE
* Temporary Files Created: NONE
* Using Subroutines: Maintain.prg
* Description: This routine controls the creation of new
* ITR's.

STORE F TO AAFINI

DO WHILE .NCT. AAFINI
    ERASE
    DC ITRSCRN
    DC INIATA

    STCRE F TO CRCOMP

    DC WHILE .NOT. CRCCMP
        ERASE
        ACCEPT "DO YOU WANT TO CREATE ANOTHER ITR (Y/N)?";
        TO CRAGAIN
        DO CASE
            CASE !(CRAGAIN) = 'Y'
                STORE T TC CRCOMP

            CASE !(CRAGAIN) = 'N'
                STORE T TO CRCOMP
                · STORE T TC AAFINI

        ENDCASE
    ENDDO
ENDDC
RELEASE ALL LIKE CR??????
RELEASE AAFINI
USE

RETURN
```

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I. ITR DATA INITIALIZATION RCUTINE

```
* Routine Name: Indata.prg
* Module Name: Maintenance Module
* Version: 6.3.1
* Authcr: D.P. Haeusler
* Date: 2 Dec 83
* Variables Used: aadate, vssn, in*, aassn
* Variables Modified: in*, aassn
* Variables Created: in*, aassn
* Variables Released: in*, aassn
* Files (cpened/closed): a:pers(O/C), b:est(O/C),
*                         b:infcmisc(O/C), b:qual(O/C)
* Temporary Files Created: None
* Using Subroutines: Creatitr.prg
* Descripticn: This rcutine inserts the data in the
* training record format on the screen and checks for
* errcrs in the data entry.  The data is then inserted in
* the data base.

STORE AAIATE TO INDATE
STORE "LAST, FIRST MI.                    " TO INNAME
STORE "  " TO INRANK
STORE "    " TO INPRIMEM
STORE "    " TO INSECMOS
STORE "DDMMYY" TC INEFTH
STORE "       " TO INSSN
STORE "       " TC INCCMP
STORE "       " TO INPLAT
STORE "DDMMYY" TO INJNDATE
STORE "DDMMYY" TO INEAS
STORE " " TC INGAS
STORE "***" TO INCODE
STORE 000 IC INPFT1
STORE "DDMMYY" TC INEFTDT1
STORE "***" TO INHIS
STORE 000 IC INPFT2
STORE "DDMMYY" TC INEFTDT2
STORE "***" TO INDRILL
STORE "*******" TO INNEC
STORE "***" TO ININT
STORE "*******" TC INMKS
STORE "***********" TC INAID
STORE "***" TO INUNI
STORE "******" TO INTAC
STORE "S " TO INSWQU
STORE "DDMMYY" TO INSWDT
STORE "OCO" TO INRFLSC
STORE "DDMMYY" TC INRFLDT
STORE "000" TO INWEIGHT
STORE "C00" TO INPSTSC
STORE "DDMMYY" TC INESTDT
STORE "00" TO INHGHT
STORE "*******" TO INEIEC
STORE "*******" TO INDRUG
STORE "*******" TO INCIDWTR
STORE "*******" TO INAICH
STORE "*******" TC INIAW
STORE "*******" TO INEUM
STORE "****" TO INMOS
STORE "*******" TO INEERSAF
STORE "*******" TO INIDR
STORE "*******" TO INUCMJ
STORE "*******" TO INCHRMOR
STORE F TO INCOMMNT
STORE F TO INWTCCNT
STORE "  " TC INPFT1CL
STORE "  " TC INPFT2CI
```

```
STORE "  " TO INRFLQU
STORE "  " TO INPSTQU


@ 1,12 GET  INNAME PICTURE "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
@ 1,51 GET  INRANK PICTURE "XX"
@ 1,60 GET  INPRIMEM PICTURE "9999"
@ 1,67 GET  INSECMOS PICTURE "9999"
@ 2,22 GET  INBRTH PICTURE "XXXXXX"
@ 2,48 GET  INSSN PICTURE "999999999"
@ 3,10 GET  INCOMP PICTURE "XXXXXX"
@ 3,22 GET  INPLAT PICTURE "XXXXXXXXX"
@ 3,37 GET  INJNDATE PICTURE "XXXXXX"
@ 3,50 GET  INEAS PICTURE "XXXXX"
@ 3,68 GET  INGAS PICTURE "X"
@ 4,27 GET  INCODE PICTURE "XXX"
@ 4,50 GET  INPFT1 PICTURE "999"
@ 4,65 GET  INPFTDT1 PICTURE "XXXXX"
@ 5,27 GET  INHIS PICTURE "XXX"
@ 5,50 GET  INPFT2 PICTURE "999"
@ 5,65 GET  INPFTDT2 PICTURE "XXXXXX"
@ 6,27 GET  INDRILL PICTURE "XXX"
@ 6,47 GET  INNBC PICTURE "XXXXX"
@ 7,27 GET  ININT PICTURE "XX"
@ 7,58 GET  INMKS PICTURE "XXXXX"
@ 8,27 GET  INAID PICTURE "XXXXXXXXXX"
@ 9,27 GET  INUNI PICTURE "XXX"
@ 9,58 GET  INTAC PICTURE "XXXX"
@ 11,19 GET  INSWCU PICTURE "XX"
@ 11,28 GET  INSWDT PICTURE "XXXXX"
@ 12,20 GET  INRFISC PICTURE "999"
@ 12,35 GET  INRFLDT PICTURE "XXXXXX"
@ 12,58 GET  INWEIGHT PICTURE "999"
@ 13,20 GET  INPSTSC PICTURE "999"
@ 13,35 GET  INPSTDT PICTURE "XXXXXX"
@ 13,58 GET  INHGHT PICTURE "99"
@ 15,28 GET  INELEC PICTURE "XXXXX"
@ 15,58 GET  INDRUG PICTURE "XXXXX"
@ 16,28 GET  INCLDWTR PICTURE "XXXXX"
@ 16,58 GET  INALCH PICTURE "XXXXX"
@ 17,28 GET  INLAW PICTURE "XXXXX"
@ 17,58 GET  INHUM PICTURE "XXXXX"
@ 18,28 GET  INMOS PICTURE "XXXX"
@ 18,58 GET  INPERSAF PICTURE "XXXXX"
@ 19,28 GET  INLDB PICTURE "XXXXX"
@ 19,58 GET  INUCMJ PICTURE "XXXXX"
@ 20,28 GET  INCHRMOR PICTURE "XXXXX"
@ 21,16 GET  INCOMMNT PICTURE "X"

READ
STORE INSSN TO AASSN
STORE 1 TO ERROPT
DO WHILE ERROPT < 17
    @ 24,0 SAY "
    @ 24,1 SAY " ERROR CHECKING IN PROGRESS"
    DO ERROR
    STORE (ERROPT + 1) TO ERROPT
ENDDO
IF INCOMMNT
    SAVE TO A:INFILE ALL LIKE IN??????
    RELEASE ALL LIKE IN??????
    RELEASE ALL EXCEPT AA???????
    DO CRTCMMNT
    DO WRICMMNT
    RESTORE FROM A:INFILE ADDITIVE
    DO ITBSCRN
@ 1,13 SAY INNAME
@ 1,52 SAY INRANK
```

```
@ 1,61 SAY INPRIMEM
@ 1,68 SAY INSECMOS
@ 2,23 SAY INBRTH
@ 2,49 SAY INSSN
@ 3,11 SAY INCOMP
@ 3,23 SAY INPLAT
@ 3,38 SAY INJNDATE
@ 3,51 SAY INEAS
@ 3,69 SAY INGAS
@ 4,28 SAY INCODE
@ 4,51 SAY INPFT1 USING "999"
@ 4,66 SAY INPFTDT1
@ 5,28 SAY INHIS
@ 5,51 SAY INPFT2 USING "999"
@ 5,66 SAY INPFTDT2
@ 6,28 SAY INDRILL
@ 6,48 SAY INNBC
@ 7,28 SAY ININT
@ 7,59 SAY INMKS
@ 8,28 SAY INAID
@ 9,28 SAY INUNI
@ 9,59 SAY INTAC
@ 11,20 SAY INSWQU
@ 11,29 SAY INSWDT
@ 12,21 SAY INRFLSC
@ 12,36 SAY INRFLDT
@ 12,59 SAY INWEIGHT
@ 13,21 SAY INPSTSC
@ 13,36 SAY INPSTDT
@ 13,59 SAY INHGHT
@ 15,29 SAY INELEC
@ 15,59 SAY INDRUG
@ 16,29 SAY INCLDWTR
@ 16,59 SAY INALCH
@ 17,29 SAY INLAW
@ 17,59 SAY INHUM
@ 18,29 SAY INMOS
@ 18,59 SAY INPERSAF
@ 19,29 SAY INLDR
@ 19,59 SAY INUCMJ
@ 20,29 SAY INCHRMOR
@ 21,17 SAY INCOMMNT
ENDIF
@ 24,1 SAY "STORING DATA IN THE SYSTEM ON DISK"
USE A:PERS INDEX A:PERSSN, A:ALPHPERS, A:MOSNDX
APPEND BLANK
REPLACE NAME WITH !(INNAME)
REPLACE SSN WITH INSSN
REPLACE RANK WITH INRANK, PRIMEMOS WITH INPRIMEM
REPLACE SECMOS WITH INSECMOS, COMPANY WITH !(INCOMP)
REPLACE PLATOON WITH !(INPLAT), JOINDATE WITH INJNDATE
REPLACE EAS WITH INEAS, BRTHDATE WITH INBRTH
REPLACE COMMENT WITH INCOMMNT
REPLACE HEIGHT WITH INHGHT, WEIGHT WITH INWEIGHT
REPLACE WTCCNT WITH INWTCONT, GASMASK WITH !(INGAS)

USE B:EST INDEX B:ESTSSN
APPEND BLANK
REPLACE SSN WITH INSSN, COC WITH !(INCODE)
REPLACE HIS WITH !(INHIS), COD WITH !(INDRILL)
REPLACE INT WITH !(ININT), AID WITH !(INAID)
REPLACE UNI WITH !(INUNI)
REPLACE PFT1RAW WITH INPFT1, PFT1DATE WITH INPFTDT1
REPLACE PFT2RAW WITH INPFT2, PFT2DATE WITH INPFTDT2
REPLACE NBC WITH !(INNBC)
REPLACE MKS WITH !(INMKS),TAC WITH !(INTAC)

USE B:QUAL INDEX B:QUALSSN
APPEND BLANK
```

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```
REPLACE SSN WITH INSSN, SWIMQUAL WITH !(INSWQU)
REPLACE SWIMDATE WITH INSWDT, RFLDATE WITH INRFLDT
REPLACE RFLSCORE WITH INRFLSC
REPLACE PSTSCORE WITH INPSTSC
REPLACE PSTDATE WITH INPSTDT

USE E:INFOMISC INDEX E:INFOSSN
APPEND BLANK
REPLACE SSN WITH INSSN, ELECWAR WITH !(INELEC)
REPLACE CLDWTHR WITH !(INCLDWTR)
REPLACE LAWWAR WITH !(INLAW), MOS WITH !(INMOS)
REPLACE DRUG WITH !(INDRUG), LDRSHP WITH INLDR
REPLACE ALCOHOL WITH !(INALCH), HUMREL WITH !(INHUM)
REPLACE PERSAFFR WITH !(INPERSAF), UCMJ WITH !(INUCMJ)
REPLACE CHRMORED WITH !(INCHRMCR)
STORE 1 TO CALCOPT
DO WHILE CALCOPT < 6
    DO CALCULAT
    STORE (CALCOPT + 1) TO CALCOPT
ENDDO

RELEASE ALL EXCEPT AA??????
ERASE
STORE AASSN TO VSSN
DO ITRSCRN
DO GETDATA

STORE F TO INDONE
DO WHILE .NOT. INDONE
    ACCEPT "IS THIS DATA CORRECT (Y/N)?" TO INAGAIN
    DO CASE
        CASE !(INAGAIN) = 'Y'
            STORE T TO INDONE
        CASE !(INAGAIN) = 'N'
            DO UPDATA
            STORE T TO INDONE
    ENDCASE
ENDDO
RELEASE ALL EXCEPT AA??????
RETURN
```

J. DATA ERROR CHECKING ROUTINE

```
* Routine Name: Error.prg
* Module Name: Maintenance Module
* Version: 6.3.1.1
* Author: D.P. Haeusler
* Date: 2 Dec 83
* Variables Used: aadate, in*,
* Variables Modified: in*
* Variables Created: inerror
* Variables Released: none
* Files (opened/closed): none
* Temporary Files Created: none
* Using Subroutines: Creatitr.prg, updata.prg
* Description: This routine does the error checing for the
* information entered in each of the appropriate fields.
* This error checking is not very extensive because this is
* aprototype system but can be increased if the need
* arises.

STORE AADATE TO INDATE
STORE T TO INERROR
DO WHILE INERROR
   STORE F TO INERROR
   DO CASE
      CASE ERROPT = 1
         IF .NOT. ($(INRANK,1,1) = 'E' .OR. $(INRANK,1,1);
            = W .OR. $(INRANK,1,1) = 'O')
            STORE T TO INERROR
            @ 24,0 SAY "
            @ 24,1 SAY "IMPROPER GRADE -- REENTER"
            @ 1,51 GET INRANK PICTURE "X9"
            READ        .
         ENDIF
      CASE ERROPT = 2
         IF .NOT. (VAL($(INBRTH,1,2)) < 31 .AND.
            VAL($(INBRTH,3,2)) < 13 .AND.;
            VAL($(INBRTH,5,2)) < VAL($(INDATE,5,2)))
            STORE T TO INERROR
            @ 24,0 SAY "
            @ 24,1 SAY " IMPROPER DATE --REENTER"
            @ 2,22 GET INBRTH PICTURE "999999"
            READ
         ENDIF
      CASE ERROPT = 3
         IF .NOT. (VAL($(INJNDATE,1,2)) < 31 .AND.;
            VAL($(INJNDATE,3,2)) < 13 .AND.
            VAL($(INJNDATE,5,2)) <= VAL($(INDATE,5,2)))
            STORE T TO INERROR
            @ 24,0 SAY "
            @ 24,1 SAY " IMPROPER DATE -- REENTER"
            @ 3,37 GET INJNDATE PICTURE "999999"
            READ
         ENDIF
      CASE ERROPT = 4
         IF .NOT (!(INGAS) = 'S' .OR. !(INGAS) = 'M' .OR.;
            !(INGAS) = 'L')
            STORE T TO INERROR
            @ 24,0 SAY "
            @ 24,1 SAY " IMPROPER GAS MASK SIZE -- REENTER"
            @ 3,68 GET INGAS PICTURE "X"
            READ
         ENDIF
      CASE ERROPT = 5
         IF .NOT. (INPFT1 < 301)
            STORE T TO INERROR
            @ 24,0 SAY "
            @ 24,1 SAY "IMPROPER PFT SCORE -- REENTER"
```

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```
            @ 4,50 GET INPFT1 PICTURE "999"
            READ
        ENDIF
    CASE ERROPT = 6
        IF .NOT. (VAL($(INPFTDT1,1,2)) < 31 .AND.;
            VAL($(INPFTDT1,3,2)) < 13 .AND.;
            VAL($(INPFTDT1,5,2)) = VAL($(INDATE,5,2)) .OR.;
            INPFTDT1 = 'DDMMYY')
            STORE T TC INERROR
            @ 24,0 SAY "
            @ 24,1 SAY " IMPROPER PFT DATE -- REENTER"
            @ 4,65 GET INPFTDT1 PICTURE "999999"
            READ
        ENDIF
    CASE ERROPT = 7
        IF .NOT. (INPFT2 < 301)
            STORE T TC INERROR
            @ 24,0 SAY "
            @ 24,1 SAY "IMPROPER PFT SCORE -- REENTER"
            @ 5,50 GET INPFT2 PICTURE "999"
            READ
        ENDIF
    CASE ERROPT = 8
        IF .NOT. (VAL($(INPFTDT2,1,2)) < 31 .AND.;
            VAL($(INPFTDT2,3,2) < 13 .AND.;
            VAL($(INPFTDT2,5,2)) = VAL($(INDATE,5,2)) .OR.;
            INPFTDT2 = 'DDMMYY')
            STORE T TC INERROR
            @ 24,0 SAY "
            @ 24,1 SAY " IMPROPER PFT DATE -- REENTER"
            @ 5,65 GET INPFTDT2 PICTURE "999999"
            READ
        ENDIF
    CASE ERROPT = 9
        IF .NOT. ($(INSWQU,1,1) ='S' .OR. $(INSWQU,1,1);
            = 's' .OR. INSWQU = 'WQ' .OR. INSWQU = 'wq')
            STORE T TC INERROR
            @ 24,0 SAY "
            @ 24,1 SAY " IMPROPER ENTRY -- REENTER"
            @ 11,19 GET INSWQU PICTURE "XX"
            READ
        ENDIF
    CASE ERROPT = 10
        IF .NOT. (VAL($(INSWDT,1,2)) < 31 .AND.;
            VAL($(INSWDT,3,2)) < 13 .AND.;
            VAL($(INSWDT,5,2)) <= VAL($(INDATE,5,2)) .OR.;
            INSWDT = 'DDMMYY')
            STORE T TC INERROR
            @ 24,0 SAY "
            @ 24,1 SAY " IMPROPER DATE -- RENTER"
            @ 11,28 GET INSWDT PICTURE "999999"
            READ
        ENDIF
    CASE ERROPT = 11
        IF .NOT. (INRFLSC < '251')
            STORE T TC INERROR
            @ 24,0 SAY "
            @ 24,1 SAY "IMPROPER RIFLE SCORE --- REENTER"
            @ 12,20 GET INRFLSC PICTURE "999"
            READ
        ENDIF
    CASE ERROPT = 12
        IF .NOT. (VAL($(INRFLDT,1,2)) < 31 .AND.;
            VAL($(INRFLDT,3,2)) < 13 .AND.;
            VAL($(INRFLDT,5,2)) <= VAL($(INDATE,5,2)) .OR.;
            INRFLDT = 'DDMMYY')
            STORE T TC INERROR
            @ 24,0 SAY "
            @ 24,1 SAY "IMPROPER DATE -- REENTER"
```

```
                        @ 12,35 GET INRFLDT PICTURE "999999"
                        READ
                  ENDIF
            CASE ERROPT = 13
                  IF INWEIGHT > '300' .OR. INWEIGHT < '070'
                        STORE T TO INERROR
                        @ 24,0 SAY "
                        @ 24,1 SAY " IMPROPER WEIGHT -- REENTER"
                        @ 12,58 GET INWEIGHT PICTURE "999"
                        READ
                  ENDIF
            CASE ERROPT = 14
                  IF .NOT. (INPSTSC < '301')
                        STORE T TO INERROR
                        @ 24,0 SAY "
                        @ 24,1 SAY " IMPROPER PISTOL SCORE -- REENTER"
                        @ 13,20 GET INPSTSC PICTURE "999"
                        READ
                  ENDIF
            CASE ERROPT = 15
                  IF .NOT. (VAL ($(INPSTDT,1,2)) < 31 .AND.;
                        VAL($(INPSTDT,3,2)) < 13 .AND.;
                        VAL($(INPSTDT,5,2)) <= VAL($(INDATE,5,2)) .OR.;
                        INPSTDT = 'DDMMYY' )
                        STORE T TO INERROR
                        @ 24,0 SAY "
                        @ 24,1 SAY "IMPROPER DATE -- REENTER"
                        @ 13,35 GET INPSTDT PICTURE "999999"
                        READ
                  ENDIF
            CASE ERROPT = 16
                  IF .NOT. (INHGHT < '78' .AND. INHGHT > '64')
                        STORE T TO INERROR
                        @ 24,0 SAY "
                        @ 24,1 SAY "IMPROPER HEIGHT -- REENTER"
                        @ 13,58 GET INHGHT PICTURE "99"
                        READ
                  ENDIF
      ENDCASE
ENDDO
RETURN
```

K. CALCULATION ROUTINE

```
* Routine Name: Calculat.prg
* Module Name: Maintenance Module
* Version: 6.3.1.2
* Author: D.P. Haeusler
* Date: 2 Dec 83
* Variables Used: calcopt, aassn, aadate, brthdate, age,
*                 mm, in*
* Variables Modified: age, mm, in*
* Variables Created: age, mm, in*
* Variables Released: all except aa??????
* Files (c/c): a:pers(o/c), b:qual(o/c), b:est(o/c)
* Temporary Files Created: none
* Using Subroutines: Updata.prg, indata.prg
* Description: This routine does the calculations that are
* triggered by the entry of data into certain fields of the
* ITR.  These calculations reconstruct the tables found in
* the training orders.

DO CASE
   CASE CALCOPT = 1
      USE A:PERS INDEX A:PERSSN
      FIND &AASSN
      IF INPFT1 > 0
         STORE (VAL($(AADATE,5,2)) -;
         (VAL($(BRTHDATE,5,2))) TO AGE
         STORE (VAL($(AADATE,3,2)) -;
         (VAL($(BRTHDATE,3,2)))) TO MM
         IF MM < 0
            STORE AGE - 1 TO AGE
         ENDIF
         USE B:EST INDEX B:ESTSSN
         FIND &AASSN
         IF PFT1RAW >= 285
            STORE 'S' TO INPFT1CL
            REPLACE PFT1CLSS WITH INPFT1CL
            @ 4,57 SAY INPFT1CL
            RELEASE INPFT1CL
            USE
         ELSE
            IF AGE <= 26
               STORE PFT1RAW TO IPFT1RAW
            ENDIF
            IF AGE < 40 .AND. AGE > 26
               STORE (PFT1RAW + 25) TO IPFT1RAW
            ENDIF
            IF AGE > 39
               STORE (PFT1RAW + 50) TO IPFT1RAW
            ENDIF
            IF IPFT1RAW <=   134
               STORE 'U' TO INPFT1CL
               REPLACE PFT1CLSS WITH INPFT1CL
               @ 4,57 SAY INPFT1CL
               RELEASE INPFT1CL
               USE
            ENDIF
            IF IPFT1RAW <= 174 .AND. IPFT1RAW > 134
               STORE '3' TO INPFT1CL
               REPLACE PFT1CLSS WITH INPFT1CL
               @ 4,57 SAY INPFT1CL
               RELEASE INPFT1CL
               USE
            ENDIF
            IF IPFT1RAW <= 224 .AND. IPFT1RAW > 174
               STORE '2' TO INPFT1CL
               REPLACE PFT1CLSS WITH INPFT1CL
               @ 4,57 SAY INPFT1CL
```

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```
                RELEASE INPFT1CI
                USE
            ENDIF
            IF IPFT1RAW > 224
                STORE '1' TO INFFT1CL
                REPLACE PFT1CLSS WITH INPFT1CL
                @ 4,57 SAY INPFT1CL
                RELEASE INPFT1CI
                USE
            ENDIF
        ENDIF
    ENDIF
CASE CALCOPT = 2
    USE A:PERS INDEX A:PERSSN
    FIND &AASSN
    IF INFFT2 > 0
        STORE  (VAL($(AADATE,5,2)) -;
        VAL($(BRTHDATE,5,2))) TO AGE
        STORE  (VAL($(AADATE,3,2)) -;
        VAL($(BRTHDATE,3,2))) TO MM
        IF MM < 0
            STORE AGE - 1 TC AGE
        ENDIF
        USE B:EST INDEX B:ESTSSN
        FIND &AASSN
        IF PFT2RAW >= 285
            STORE 'S' TO INPFT2CL
            REPLACE FFT2CLSS WITH INPFT2CL
            @ 5,57 SAY INPFT2CL
            RELEASE INPFT2CI
            USE
        ELSE
            IF AGE <= 26
                STORE FFT2RAW TC IPFT2RAW
            ENDIF
            IF AGE < 40 .ANC. AGE > 26
                STORE (PFT2RAW + 25) TO IPFT2RAW
            ENDIF
            IF AGE > 39
                STORE (PFT2RAW + 50) TO IPFT2RAW
            ENDIF
            IF IPFT2RAW <=   134
                STORE 'U' TO INPFT2CL
                REPLACE PFT2CLSS WITH INPFT2CL
                @ 5,57 SAY INPFT2CL
                RELEASE INPFT2CI
                USE
            ENDIF
            IF IPFT2RAW <= 174 .AND. IPFT2RAW > 134
                STORE '3' TO INFFT2CL
                REPLACE PFT2CLSS WITH INPFT2CL
                @ 5,57 SAY INFFT2CL
                RELEASE INPFT2CL
                USE
            ENDIF
            IF IFFT2RAW <= 224 .AND. IPFT2RAW > 174
                STORE '2' TO INFFT2CL
                REPLACE PFT2CLSS WITH INPFT2CL
                @ 5,57 SAY INPFT2CL
                RELEASE INPFT2CI
                USE
            ENDIF
            IF IPFT2RAW > 224
                STORE '1' TO INFFT2CL
                REPLACE PFT2CLSS WITH INPFT2CL
                @ 5,57 SAY INFFT2CL
                RELEASE INPFT2CL
                USE
            ENDIF
```

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```
          ENDIF
       ENDIF
CASE CALCOPT = 3
    USE B:QUAL INDEX B:QUALSSN
    FIND &AASSN
    IF RFLSCORE > '0'
       IF RFLSCORE < '190'
          STORE 'UN' TO INRFLQU
          REPLACE RFLQUAL WITH INRFLQU
          @ 12,27 SAY INRFLQU
          RELEASE INRFLQU
       ENDIF
       IF RFLSCORE < '210' .AND. RFLSCORE >= '190'
          STORE 'MM' TO INRFLQU
          REPLACE RFLQUAL WITH INRFLQU
          @ 12,27 SAY INRFLQU
          RELEASE INRFLQU
       ENDIF
       IF RFLSCORE < '220' .AND. RFLSCORE >= '210'
          STORE 'SS' TO INRFLQU
          REPLACE RFLQUAL WITH INRFLQU
          @ 12,27 SAY INRFLQU
          RELEASE INRFLQU
       ENDIF
       IF RFLSCORE >= '220'
          STORE 'EX' TO INRFLQU
          REPLACE RFLQUAL WITH INRFLQU
          @ 12,27 SAY INRFLQU
          RELEASE INRFLQU
       ENDIF
       USE
    ENDIF
CASE CALCOPT = 4
    USE B:QUAL INDEX B:QUALSSN
    FIND &AASSN
    IF PSTSCORE > '0'
       IF PSTSCORE < '180'
          STORE 'UN' TO INPSTQU
          REPLACE PSTQUAL WITH INPSTQU
          @ 13,27 SAY INPSTQU
          RELEASE INPSTQU
       ENDIF
       IF PSTSCORE < '210' .AND. PSTSCORE >= '180'
          STORE 'MM' TO INPSTQU
          REPLACE PSTQUAL WITH INPSTQU
          @ 13,27 SAY INPSTQU
          RELEASE INPSTQU
       ENDIF
       IF PSTSCORE < '250' .AND. PSTSCORE >= '210'
          STORE 'SS' TO INPSTQU
          REPLACE PSTQUAL WITH INPSTQU
          @ 13,27 SAY INPSTQU
          RELEASE INPSTQU
       ENDIF
       IF PSTSCORE >= '250'
          STORE 'EX' TO INPSTQU
          REPLACE PSTQUAL WITH INPSTQU
          @ 13,27 SAY INPSTQU
          RELEASE INPSTQU
       ENDIF
       USE
    ENDIF
CASE CALCOPT = 5
    USE A:PERS INDEX A:PERSSN
    FIND &AASSN
    STORE T TO INWTCONT
    IF HEIGHT = '64' .AND. WEIGHT <= '160' .AND.;
       WEIGHT >= '105'
       STORE F TO INWTCONT
```

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```
            REPLACE WTCCNT WITH INWTCONT
            @ 11,59 SAY INWTCONT
ENDIF
IF HEIGHT = '65' .AND. WEIGHT <= '165' .AND.;
        WEIGHT >= '106'
        STORE F TO INWTCONT
        REPLACE WTCCNT WITH INWTCONT
        @ 11,59 SAY INWTCONT
ENDIF
IF HEIGHT = '66' .AND. WEIGHT <= '170' .AND.;
        WEIGHT >= '107'
        STORE F TO INWTCONT
        REPLACE WTCCNT WITH INWTCONT
        @ 11,59 SAY INWTCONT
ENDIF
IF HEIGHT = '67' .AND. WEIGHT <= '175' .AND.;
        WEIGHT >= '111'
        STORE F TO INWTCONT
        REPLACE WTCCNT WITH INWTCONT
        @ 11,59 SAY INWTCONT
ENDIF
IF HEIGHT = '68' .AND. WEIGHT <= '181' .AND.;
        WEIGHT >= '115'
        STORE F TO INWTCONT
        REPLACE WTCCNT WITH INWTCONT
        @ 11,59 SAY INWTCONT
ENDIF
IF HEIGHT = '69' .AND. WEIGHT <= '186' .AND.;
        WEIGHT >= '119'
        STORE F TO INWTCONT
        REPLACE WTCCNT WITH INWTCONT
        @ 11,59 SAY INWTCONT
ENDIF
IF HEIGHT = '70' .AND. WEIGHT <= '192' .AND.;
        WEIGHT >= '123'
        STORE F TO INWTCONT
        REPLACE WTCCNT WITH INWTCONT
        @ 11,59 SAY INWTCONT
ENDIF
IF HEIGHT = '71' .AND. WEIGHT <= '197' .AND.;
        WEIGHT >= '127'
        STORE F TO INWTCONT
        REPLACE WTCCNT WITH INWTCONT
        @ 11,59 SAY INWTCONT
ENDIF
IF HEIGHT = '72' .AND. WEIGHT <= '203' .AND.;
        WEIGHT >= '131'
        STORE F TO INWTCONT
        REPLACE WTCCNT WITH INWTCONT
        @ 11,59 SAY INWTCONT
ENDIF
IF HEIGHT = '73' .AND. WEIGHT <= '209' .AND.;
        WEIGHT >= '135'
        STORE F TO INWTCONT
        REPLACE WTCCNT WITH INWTCONT
        @ 11,59 SAY INWTCONT
ENDIF
IF HEIGHT = '74' .AND. WEIGHT <= '214' .AND.;
        WEIGHT >= '139'
        STORE F TO INWTCONT
        REPLACE WTCCNT WITH INWTCONT
        @ 11,59 SAY INWTCONT
ENDIF
IF HEIGHT = '75' .AND. WEIGHT <= '219' .AND.;
        WEIGHT >= '143'
        STORE F TO INWTCONT
        REPLACE WTCCNT WITH INWTCONT
        @ 11,59 SAY INWTCONT
ENDIF
```

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```
        IF HEIGHT = '76' .AND. WEIGHT <= '225' .AND.;
            WEIGHT >= '147'
            STORE F TO INWTCONT
            REPLACE WTCONT WITH INWTCONT
            @ 11,59 SAY INWTCONT
        ENDIF
        IF HEIGHT = '77' .AND. WEIGHT <= '230' .AND.;
            WEIGHT >= '151'
            STORE F TO INWTCONT
            REPLACE WTCONT WITH INWTCONT
            @ 11,59 SAY INWTCONT
        ENDIF
        IF HEIGHT = '78' .AND. WEIGHT <= '235' .AND.;
            WEIGHT >= '153'
            STORE F TO INWTCONT
            REPLACE WTCONT WITH INWTCONT
            @ 11,59 SAY INWTCONT
        ENDIF
        IF INWTCONT
            REPLACE WTCONT WITH INWTCONT
            @ 11,59 SAY INWTCONT
        ENDIF
        USE
    ENDCASE
RETURN
```

L. COMMENT UPDATE ROUTINE

```
* Routine Name: Wrtcmmt.prg
* Module Name: Maintenance Module
* Version: 6.3.1.3
* Author: D.P. Haeusler
* Date: 19 Jan 84
* Variables Used: aassn, intxt*
* Variables Modified: intxt*
* Variables Created: intxt*
* Variables Released: all like intxt*
* Files (opened/closed): a:cmmnt (o/c)
* Temporary Files Created: none
* Using Subroutines: indata.prg, updata.prg
* Description: This routine updates the information stored
* in the data base on an individual.

ERASE
@ 5,33 SAY "COMMENT SECTION"
USE A:CMMNT INDEX A:CMMNTSSN
FIND &AASSN
IF .NOT. # = 0
@ 8,2 SAY INFOTXT1
@ 8,51 SAY INFOTXT2
@ 9,2 SAY INFOTXT3
@ 9,51 SAY INFOTXT4
@ 10,2 SAY INFOTXT5
@ 10,51 SAY INFOTXT6
@ 11,2 SAY INFOTXT7
@ 11,51 SAY INFOTXT8
@ 12,2 SAY INFOTXT9
@ 12,51 SAY INFOTXT0
STORE INFOTXT1 TO INTXT1
STORE INFOTXT2 TO INTXT2
STORE INFOTXT3 TO INTXT3
STORE INFOTXT4 TO INTXT4
STORE INFOTXT5 TO INTXT5
STORE INFOTXT6 TO INTXT6
STORE INFOTXT7 TO INTXT7
STORE INFOTXT8 TO INTXT8
STORE INFOTXT9 TO INTXT9
STORE INFOTXT0 TO INTXT0
@ 8,1 GET INTXT1 PICTURE "XXXXXXXXXXXXXXXXXXXXXXXXX"
@ 8,50 GET INTXT2 PICTURE "XXXXXXXXXXXXXXXXXXXXXXXXXX"
@ 9,1 GET INTXT3 PICTURE "XXXXXXXXXXXXXXXXXXXXXXXXX"
@ 9,50 GET INTXT4 PICTURE "XXXXXXXXXXXXXXXXXXXXXXXXXX"
@ 10,1 GET INTXT5 PICTURE "XXXXXXXXXXXXXXXXXXXXXXXXX"
@ 10,50 GET INTXT6 PICTURE "XXXXXXXXXXXXXXXXXXXXXXXXXX"
@ 11,1 GET INTXT7 PICTURE "XXXXXXXXXXXXXXXXXXXXXXXXX"
@ 11,50 GET INTXT8 PICTURE "XXXXXXXXXXXXXXXXXXXXXXXXXX"
@ 12,1 GET INTXT9 PICTURE "XXXXXXXXXXXXXXXXXXXXXXXXX"
@ 12,50 GET INTXT0 PICTURE "XXXXXXXXXXXXXXXXXXXXXXXXXX"
READ
REPLACE INFOTXT1 WITH INTXT1
REPLACE INFOTXT2 WITH INTXT2
REPLACE INFOTXT3 WITH INTXT3
REPLACE INFOTXT4 WITH INTXT4
REPLACE INFOTXT5 WITH INTXT5
REPLACE INFOTXT6 WITH INTXT6
REPLACE INFOTXT7 WITH INTXT7
REPLACE INFOTXT8 WITH INTXT8
REPLACE INFOTXT9 WITH INTXT9
REPLACE INFOTXT0 WITH INTXT0
ENDIF
USE
RELEASE ALL LIKE INTXT?
RETURN
```

M. COMMENT CREATION ROUTINE

```
* Routine Name: Crtcmmt.prg
* Module Name: Maintenance Module
* Version: 6.3.1.4
* Author: D.P. Haeusler
* Date: 10 Jan 84
* Variables Used: newtext, aassn
* Variables Modified: newtext
* Variables Created: newtext
* Variables Released: newtext
* Files (opened/closed): a:cmmnt (o/c)
* Temporary Files Created: none
* Using Subroutines: indata.prg, updata.prg
* Description: This routine creates a comment data base
* file for the individual that corresponds to the aassn.
* This file when created has 10 fields of 25 characters
* each and is filled with asterisks.

STORE "*************************" TO NEWTXT
USE A:CMMNT INDEX A:CMMNTSSN
APPEND BLANK
REPLACE SSN WITH AASSN, INFOTXT1 WITH NEWTXT
REPLACE INFOTXT2 WITH NEWTXT, INFOTXT3 WITH NEWTXT
REPLACE INFOTXT5 WITH NEWTXT, INFOTXT6 WITH NEWTXT
REPLACE INFOTXT7 WITH NEWTXT, INFOTXT8 WITH NEWTXT
REPLACE INFOTXT9 WITH NEWTXT, INFOTXT0 WITH NEWTXT
REPLACE INFOTXT4 WITH NEWTXT
USE
RELEASE NEWTXT
RETURN
```

N. DELETE ITR ROUTINE

```
* Routine Name: Deletitr.prg
* Module Name: Maintenance Module
* Version: 6.4.0
* Author: D.P. Haeusler
* Date: 20 Jan 84
* Variables Used: del*, aassn
* Variables Modified: del*, aassn
* Variables Created: del*
* Variables Released: del*
* Files (opened/closed): a:pers(o/c), b:est(o/c),
                          b:qual(c/c), b:infomisc(o/c)
* Temporary Files Created: none
* Using Subroutines: Maintain.prg
* Description: This routine deletes records in the data
* base.  It first checks to see if the record is in the
* data base, displays the record, queries the user if this
* is the record to be deleted, and deletes the record.

STORE F TO DELFINI
DO WHILE .NOT. DELFINI
    ERASE
    @ 12,30 SAY "ITR TO BE DELETED"
    ACCEPT "        NAME (LAST, FIRST MI.)====>" TO DELNAME
    USE A:PERS INDEX A:ALPHPERS, A:PERSSN, A:MOSNDX
    FIND &DELNAME
    IF .NOT. # = 0
        STORE SSN TO AASSN
        DO ITRSCRN
        DO GETDATA
        STORE F TO DELTHRU
        DO WHILE .NOT. DELTHRU
            @ 23,0 SAY " IS THIS ITR TO BE DELETED? "
            ACCEPT " ENTER YES OR NO =====>" TO DELCHK
            IF !(DELCHK) = 'NO'
                STORE T TO DELTHRU
            ELSE
                IF !(DELCHK) = 'YES'
                    ERASE
                    @ 12,30 SAY "DELETING ITR"
                    STORE T TO DELTHRU
                    USE A:PERS INDEX A:ALPHPERS, A:PERSSN,;
                    A:MOSNDX
                    FIND &AASSN
                    IF .NOT. # = 0
                        DELETE
                        PACK
                    ENDIF
                    USE A:CMMNT INDEX A:CMMNTSSN
                    FIND &AASSN
                    IF .NOT. # = 0
                        DELETE
                        PACK
                    ENDIF
                    USE B:QUAL INDEX B:QUALSSN
                    FIND &AASSN
                    IF .NOT. # = 0
                        DELETE
                        PACK
                    ENDIF
                    USE B:EST INDEX B:ESTSSN
                    FIND &AASSN
                    IF .NOT. # = 0
                        DELETE
                        PACK
                    ENDIF
                    USE B:INFOMISC INDEX A:INFOSSN
```

```
                    FIND &AASSN
                    IF .NCT. # = 0
                        DELETE
                        PACK
                    ENDIF
                ENDIF
            ENDIF
        ENDDO
    ENDIF
    STCRE F TO DEIDONE
    DC WHILE .NOT. DEIDONE
        ERASE
        @ 12,20 SAY " DC YOU WANT TO DELETE ANOTHER RECORE? "
        ACCEPT "       ENTER YES CR NO ========> " TO DELCHK
        IF !(DELCHK) = 'NO'
            STCRE T TO DEIDONE
            STCRE T TO DELFINI
        ELSE
            IF !(DELCHK) = 'YES'
                STORE T IC DELDCNE
            ENDIF
        ENDIF
    ENDDO
ENDDC
RELEASE ALL EXCEPT AA??????
RETURN
```

C. SYSTEM FUNCTION CONTROL ROUTINE

```
* Routine Name: System.prg
* Module Name: Maintenance Module
* Version: 6.5.0
* Author: D.P. Haeusler
* Date: 30 Jan 1984
* Variables Used: aacomple, sysopt
* Variables Modified: aacomple, sysopt
* Variables Created: aacomple, sysopt
* Variables Released: aacomple, sysopt
* Files (opened/closed): none
* Temporary Files Created: none
* Using Subroutines: Maintain.prg
* Description: This module creates the menu for all the
* system function modifications. It is a restricted module
* and can only be accessed by a user with a authorization
* level of 1.  The module then can choose the appropriate
* subroutine corresponding to the option selected.

STORE F TO AACOMPLE
DO WHILE .NOT. AACOMPLE
    ERASE
    @ 6,29 SAY " SYSTEM FUNCTION MENU "
    @ 8,24 SAY " SELECT ONE OF THE FOLLOWING OPTIONS"
    @ 10,31 SAY "I...INSTALL SYSTEM"
    @ 11,31 SAY "S...SYSTEM RESET (YEARLY)"
    @ 12,31 SAY "A...ACCESS LIST MAINTENANCE"
    @ 13,31 SAY "Q...QUIT TO MAINTENCE MENU"
    ACCEPT "       ENTER OPTION ===>" TO SYSOPT
    DO CASE
        CASE !(SYSOPT) = "I"
            STORE F TO AACOMPLE
            DO B:INSTALL
        CASE !(SYSOPT) = "S"
            STORE F TO AACOMPLE
            DO B:SYSRESET
        CASE !(SYSOPT) = "A"
            STORE F TO AACOMPLE
            DO B:RSTACCSS
        CASE !(SYSOPT) = "Q"
            STORE T TO AACOMPLE
    ENDCASE
ENDDO
RELEASE ALL EXCEPT AA??????
RELEASE AACOMPLE
RETURN
```

F. SYSTEM INSTALATICN ROUTINE

```
* Routine Name: Install.prg
* Module Name: Maintenance Module
* Version: 6.5.1
* Author: D.P. Haeusler
* Date: 7 Feb 84
* Variables Used: *cc, *plt, crntyr
* Variables Modified: *co, *plt, crntyr
* Variables Created: none
* Variables Released: all
* Files (opened/closed): a:unitmem.mem, a:memdisk.mem
* Temporary Files Created: temp.mem
* Using Subroutines: System.prg
* Description: This routine stores the appropriate values
* in the memory files that the system uses to describe the
* units that are in the battalion.  It also establishes
* the current year that is used for error checking and
* calculations

SAVE TO TEMP
RELEASE ALL
ERASE
RESTORE FROM A:UNITMEM
@ 3,30 SAY "SYSTEM INSTALLATICN"
@ 5,15 SAY "ENTER THE NAMES OF YOUR COMPANY SIZE UNITS"
@ 7,15 SAY "COMPANY/BATTERY #1"
@ 7,34 GET CNECO PICTURE "XXXXX"
@ 8,15 SAY "COMPANY/BATTERY #2"
@ 8,34 GET TWOCO PICTURE "XXXXX"
@ 9,15 SAY "COMPANY/BATTERY #3"
@ 9,34 GET THREECO PICTURE "XXXXX"
@ 10,15 SAY "COMPANY/BATTERY #4"
@ 10,34 GET FOURCO PICTURE "XXXXX"
READ
STORE !(CNECO) TO ONECO
STORE !(TWOCO) TC TWCCO
STORE !(THREECO) TO THREECO
STORE !(FCUFCO) TO FCURCO
ERASE
@ 3,30 SAY "SYSTEM INSTALLATICN"
@ 5,15 SAY "ENTER THE NAMES OF PLATOON SIZED UNITS"
@ 7,15 SAY "PLATCON #1"
@ 7,26 GET CNEPLT PICTURE "XXXXXXXX"
@ 8,15 SAY "PLATCON #2"
@ 8,26 GET TWOPLT PICTURE "XXXXXXXX"
@ 9,15 SAY "PLATCON #3"
@ 9,26 GET THREEPLT PICTURE "XXXXXXXX"
@ 10,15 SAY "PLATOON #4"
@ 10,26 GET FOURPLT PICTURE "XXXXXXXX"
READ
STORE !(CNEPLT) TO ONEPLT
STORE !(TWCPLT) TO TWCPLT
STORE !(THREEPLT) TO THREEPIT
STORE !(FOURPLT) TO FCURPLT
SAVE TO UNITMEM
ERASE
RELEASE ALL
RESTORE FROM A:MEMDISK
@ 12,25 SAY "ENTER THE CURRENT YEAR"
ACCEPT "              YEAR (YY) ===>" TO CRNTYR
SAVE TO A:MEMDISK
RELEASE ALL
RESTCFE FROM TEMP
RETURN
```

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Q. SYSTEM RESET ROUTINE

```
* Routine Name: Sysreset.prg
* Module Name: Maintenance Module
* Version: 6.5.2
* Author: D.P. Haeusler
* Date: 4 Feb 84
* Variables Used: crntyr, reset, rgreset, done, q*, *co
* Variables Modified: crntyr, reset, rgreset, done, q*, *co
* Variables Created: reset, rgreset, done
* Variables Released: all
* Files (opened/closed): a:memdisk.mem, a:unitmem.mem,
* Temporary Files Created: temp.mem
* Using Subroutines: System.prg
* Description: This routine sets all the values to the
* default value for the fields that are reset yearly.  The
* information is then stored in the data base for each
* individual.  It also stores the yearly projections on
* the range quotas to a memory file that can be recalled by
* routines that use these values for calculations.

SAVE TO TEMP
RELEASE ALL
RESTORE FROM A:MEMDISK ADDITIVE
ERASE
@ 10,15 SAY "ENTER THE CURRENT YEAR"
ACCEPT "              YEAR (YY) ===>" TO CRNTYR
SAVE TO A:MEMDISK
RELEASE ALL
STORE F TO DONE
DO WHILE .NOT. DONE
    ERASE
    @ 10,15 SAY "DO YOU WANT TO RESET RANGE QUOTAS FOR;
THE YEAR?"
    ACCEPT "              ENTER (Y OR N) ====>" TO RESET
    IF !(RESET) = 'Y'
        STORE T TO DONE
        STORE T TO RGRESET
    ELSE
        IF !(RESET) = 'N'
            STORE T TO DONE
            STORE F TO RGRESET
        ENDIF
    ENDIF
ENDDO
IF RGRESET
    ERASE
    RESTORE FROM A:ARNGQTAS
    RESTORE FROM A:UNITMEM ADDITIVE
    @ 3,15 SAY "ENTER RANGE QUOTAS AS PROJECTED,;
FOR THE YEAR,"
    @ 4,15 SAY "FOR UNIT: "
    @ 4,25 SAY ONECO
    @ 6,15 SAY "JANUARY"
    @ 6,23 GET QJAN PICTURE "999"
    @ 7,15 SAY "FEBRUARY"
    @ 7,24 GET QFEB PICTURE "999"
    @ 8,15 SAY "MARCH"
    @ 8,21 GET QMAR PICTURE "999"
    @ 9,15 SAY "APRIL"
    @ 9,21 GET QAPR PICTURE "999"
    @ 10,15 SAY "MAY"
    @ 10,19 GET QMAY PICTURE "999"
    @ 11,15 SAY "JUNE"
    @ 11,20 GET QJUN PICTURE "999"
    @ 12,15 SAY "JULY"
    @ 12,20 GET QJUL PICTURE "999"
    @ 13,15 SAY "AUGUST"
```

```
@ 13,22 GET QAUG PICTURE "999"
@ 14,15 SAY "SEPTEMBER"
@ 14,25 GET QSEP PICTURE "999"
@ 15,15 SAY "OCTOBER"
@ 15,23 GET QCCT PICTURE "999"
@ 16,15 SAY "NOVEMBER"
@ 16,24 GET QNOV PICTURE "999"
@ 17,15 SAY "DECEMBER"
@ 17,24 GET QDEC PICTURE "999"
READ
RELEASE ALL EXCEPT Q???
SAVE TO A:ARNGQTAS
RELEASE ALL
RESTORE FROM A:BRNGQTAS
RESTORE FROM UNITMEM ADDITIVE
ERASE
@ 3,15 SAY "ENTER RANGE QUOTAS AS PROJECTED,;
FOR THE YEAR,"
@ 4,15 SAY "FOR UNIT: "
@ 4,25 SAY TWOCO
@ 6,15 SAY "JANUARY"
@ 6,23 GET QJAN PICTURE "999"
@ 7,15 SAY "FEBRUARY"
@ 7,24 GET QFEB PICTURE "999"
@ 8,15 SAY "MARCH"
@ 8,21 GET QMAR PICTURE "999"
@ 9,15 SAY "APRIL"
@ 9,21 GET QAPR PICTURE "999"
@ 10,15 SAY "MAY"
@ 10,19 GET QMAY PICTURE "999"
@ 11,15 SAY "JUNE"
@ 11,20 GET QJUN PICTURE "999"
@ 12,15 SAY "JULY"
@ 12,20 GET QJUL PICTURE "999"
@ 13,15 SAY "AUGUST"
@ 13,22 GET QAUG PICTURE "999"
@ 14,15 SAY "SEPTEMBER"
@ 14,25 GET QSEP PICTURE "999"
@ 15,15 SAY "OCTOBER"
@ 15,23 GET QCCT PICTURE "999"
@ 16,15 SAY "NOVEMBER"
@ 16,24 GET QNOV PICTURE "999"
@ 17,15 SAY "DECEMBER"
@ 17,24 GET QDEC PICTURE "999"
READ
RELEASE ALL EXCEPT Q???
SAVE TO A:BRNGQTAS
RELEASE ALL
ERASE
RESTORE FROM A:CRNGQTAS
RESTORE FROM UNITMEM ADDITIVE
@ 3,15 SAY "ENTER RANGE QUOTAS AS PROJECTED,;
FOR THE YEAR,"
@ 4,15 SAY "FOR UNIT: "
@ 4,25 SAY THREECO
@ 6,15 SAY "JANUARY"
@ 6,23 GET QJAN PICTURE "999"
@ 7,15 SAY "FEBRUARY"
@ 7,24 GET QFEB PICTURE "999"
@ 8,15 SAY "MARCH"
@ 8,21 GET QMAR PICTURE "999"
@ 9,15 SAY "APRIL"
@ 9,21 GET QAPR PICTURE "999"
@ 10,15 SAY "MAY"
@ 10,19 GET QMAY PICTURE "999"
@ 11,15 SAY "JUNE"
@ 11,20 GET QJUN PICTURE "999"
@ 12,15 SAY "JULY"
@ 12,20 GET QJUL PICTURE "999"
```

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```
            @ 13,15 SAY "AUGUST"
            @ 13,22 GET QAUG PICTURE "999"
            @ 14,15 SAY "SEPTEMBER"
            @ 14,25 GET QSEP PICTURE "999"
            @ 15,15 SAY "OCTOBER"
            @ 15,23 GET QOCT PICTURE "999"
            @ 16,15 SAY "NOVEMBER"
            @ 16,24 GET QNOV PICTURE "999"
            @ 17,15 SAY "DECEMBER"
            @ 17,24 GET QDEC PICTURE "999"
            READ
            RELEASE ALL EXCEPT Q???
            SAVE TO A:CRNGQTAS
            RELEASE ALL
            ERASE
            RESTORE FROM A:DRNGQTAS
            RESTORE FROM UNITMEM ADDITIVE
            @ 3,15 SAY "ENTER RANGE QUOTAS AS PROJECTED,;
       FOR THE YEAR,"
            @ 4,15 SAY "FOR UNIT: "
            @ 4,25 SAY FOURCO
            @ 6,15 SAY "JANUARY"
            @ 6,23 GET QJAN PICTURE "999"
            @ 7,15 SAY "FEBRUARY"
            @ 7,24 GET QFEB PICTURE "999"
            @ 8,15 SAY "MARCH"
            @ 8,21 GET QMAR PICTURE "999"
            @ 9,15 SAY "APRIL"
            @ 9,21 GET QAPR PICTURE "999"
            @ 10,15 SAY "MAY"
            @ 10,19 GET QMAY PICTURE "999"
            @ 11,15 SAY "JUNE"
            @ 11,20 GET QJUN PICTURE "999"
            @ 12,15 SAY "JULY"
            @ 12,20 GET QJUL PICTURE "999"
            @ 13,15 SAY "AUGUST"
            @ 13,22 GET QAUG PICTURE "999"
            @ 14,15 SAY "SEPTEMBER"
            @ 14,25 GET QSEP PICTURE "999"
            @ 15,15 SAY "OCTOBER"
            @ 15,23 GET QOCT PICTURE "999"
            @ 16,15 SAY "NOVEMBER"
            @ 16,24 GET QNOV PICTURE "999"
            @ 17,15 SAY "DECEMBER"
            @ 17,24 GET QDEC PICTURE "999"
            READ
            RELEASE ALL EXCEPT Q???
            SAVE TO A:BRNGQTAS
            RELEASE ALL
      ENDIF
      RESTORE FROM TEMP
      STORE F TO DONE
      DO WHILE .NOT. DONE
            ERASE
            @ 12,24 SAY "DO YOU WANT TO RESET YEARLY TRAINING;
       VALUES"
            @ 13,24 SAY "IN THE DATA BASE FOR THE BATTALION?"
            ACCEPT "                        ENTER (Y OR N) ====>" TO RESET
            IF !(RESET) = 'Y'
                  STORE T TO DONE
                  USE E:EST
                  REPLACE ALL COC WITH "***"
                  REPLACE ALL HIS WITH "***"
                  REPLACE ALL COD WITH "***"
                  REPLACE ALL INT WITH "***"
                  REPLACE ALL AID WITH "***********"
                  REPLACE ALL UNI WITH "***"
                  REPLACE ALL PFT1RAW WITH 000
                  REPLACE ALL PFT1DATE WITH "DDMMYY"

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```

```
            REPLACE ALL PFT1CLSS WITH "*"
            REPLACE ALL PFT2RAW WITH 000
            REPLACE ALL PFT2DATE WITH "DDMMYY"
            REPLACE ALL PFT2CLSS WITH "*"
            REPLACE ALL NBC WITH "******"
            REPLACE ALL MKS WITH "******"
            REPLACE ALL TAC WITH "*****"
            USE E:QUAL
            REPLACE ALL RFISCORE WITH "***"
            REPLACE ALL RFLQUAL WITH "**"
            REPLACE ALL RFIDATE WITH "DDMMYY"
            REPLACE ALL PSTSCORE WITH "***"
            REPLACE ALL PSTQUAL WITH "**"
            REPLACE ALL PSTDATE WITH "DDMMYY"
            USE
      ELSE
         IF !(RESET) = 'N'
            STORE T TO DONE
         ENDIF
      ENDIF
ENDDO
RELEASE ALL EXCEPT AA??????
RETURN
```

B.   SYSTEM ACCESS CONTROL ROUTINE

```
* Routine Name: Rstaccss.prg
* Module Name: Maintenance Module
* Version: 6.5.3
* Author: D.P. Haeusler
* Date: 8 Feb 84
* Variables Used: thru, ac*, more, lines, done, cont
* Variables Modified: same as above
* Variables Created: same as above
* Variables Released:  all
* Files (opened/closed): a:security(o/c)
* Temporary Files Created: none
* Using Subroutines: System.prg
* Description: This routine allows users with an access
* level of 1 to update the access list.

STORE F TO THRU
DO WHILE .NOT. THRU
    ERASE
    @ 8,28 SAY " SECURITY ACCESS LIST"
    @ 9,28 SAY " CHOOSE OPTION TO BE EXECUTED"
    @ 11,24 SAY " L...LIST ALL USERS"
    @ 12,24 SAY " A...ADD TO ACCESS LIST"
    @ 13,24 SAY " D...DELETE FROM ACCESS LIST"
    @ 14,24 SAY " Q...QUIT TO SYSTEM FUNCTION MENU"
    ACCEPT "       ENTER OPTION ===>" TO ACCOPT
    DO CASE
        CASE !(ACCOPT) = "L"
            USE A:SECURITY INDEX A:ACCNAME
            DO WHILE .NOT. EOF
                ERASE
                @ 3,24 SAY " SECURITY ACCESS LIST"
                @ 5,1 SAY "NAME                   USER NO.;
                PASSWORD      LEVEL "
                STORE 7 TO LINES
                DO WHILE .NOT. EOF .AND. LINES < 22
                    @ LINES,1 SAY NAME
                    @ LINES,20 SAY USERID
                    @ LINES,41 SAY USERPASS
                    @ LINES,56 SAY AUTHLEV
                    SKIP
                    STORE (LINES + 2 ) TO LINES
                    IF LINES > 22
                        @ 23,15 SAY "*** PRESS ANY KEY TO;
    CONTINUE ***"
                        SET CONSOLE OFF
                        WAIT
                        SET CONSOLE ON
                    ENDIF
                ENDDO
            ENDDO
            @ 23,15 SAY "*** PRESS ANY KEY TO CONTINUE ***"
            SET CONSOLE OFF
            WAIT
            SET CONSOLE ON
            USE
        CASE !(ACCOPT) = "A"
            STORE T TO MORE
            DO WHILE MORE
                ERASE
                STORE "                " TO ACNAME
                STORE "      " TO ACCUSER
                STORE "          " TO ACCPASS
                STORE 0 TO ACCLEV
                @ 10,25 SAY "NAME OF USER"
                @ 10,38 GET ACNAME PICTURE "XXXXXXXXXXXXXXX"
                @ 12,25 SAY "USER ID"
```

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```
                @ 12,33 GET ACCUSER PICTURE "XXXXX"
                @ 14,25 SAY "PASSWORD"
                @ 14,34 GET ACCPASS PICTURE "XXXXXXX"
                @ 16,25 SAY "AUTHORIZATION LEVEL"
                @ 16,45 GET ACCLEV PICTURE "9"
                READ
                STORE T TC NOGOCD
                DO WHILE NOGOOD
                    IF (ACCLEV < 1) .OR. (ACCLEV > 3)
                        @ 23,1 SAY " ILLEGAL AUTHORIZATION LEVEL;
---REENTER"
                        @ 16,45 GET ACCLEV PICTURE "9"
                        READ
                    ELSE
                        STCRE F TC NCGOOD
                    ENDIF
                ENDDO
                USE A:SECURITY INDEX A:ACCNAME, A:SECINDX
                APPEND BIANK
                REPLACE NAME WITH !(ACNAME),;
                AUTHLEV WITH ACCLEV
                REPLACE USERID WITH !(ACCUSER),;
                USERPASS WITH !(ACCPASS)
                USE
                STORE F TC DONE
                DO WHILE .NOT. DONE
                    ERASE
                    @ 10,25 SAY " DO YOU WANT TO ENTER ANCTHER;
USER?"
                    ACCEPT "          ENTER (Y OR N ) ===>";
                    TO CONT
                    IF !(CCNT) = "Y"
                        STCRE T TC DCNE
                    ELSE
                        IF !(CONT) = "N"
                            STORE T TO DONE
                            STORE F TC MORE
                        ENDIF
                    ENDIF
                ENDDO
            ENDDO
        CASE !(ACCOPT) = "D"
            STCRE T TO MCRE
            DC WHILE MORE
                ERASE
                @ 12,24 SAY " ENTER NAME OF THE USER TO BE;
DELETED"
                @ 13,24 SAY " OR QUIT TO REENTER ACCESS MENU "
                ACCEPT "       NAME ====>" TO  ACNAME
                STORE !(ACNAME) TO ACNAME
                IF ACNAME = "QUIT"
                    STORE F TC MCRE
                ELSE
                    USE A:SECURITY INDEX A:ACCNAME, A:SECINDX
                    FIND &ACNAME
                    IF # = 0
                        @ 22,28 SAY "INDIVIDUAL NOT FOUND IN;
FILE"
                        @ 23,24 SAY "*** PRESS ANY KEY TO;
CONTINUE ***"
                        SET CONSOLE OFF
                        WAIT
                        SET CONSOLE ON
                    ELSE
                        DELETE
                    ENDIF
                    USE
                ENDIF
                USE A:SECURITY INDEX A:ACCNAME, A:SECINDX
```

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```
                PACK
                USE
            ENDDO
        CASE  !(ACCOPT) = "Q"
            STCRE T TO THRU
    ENICASE
ENDDC
RELEASE ALL EXCEPT AA??????
RETURN
```